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ARACHNIDA

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ERNEST BROWNING, M.B.E.

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12. ARACHNIDA

to which are added

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MYRIAPODA and ONYCHOPHORA

compiled by

ERNEST BROWNING, M.B.E.

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I.—TITLES

The year of publication is omitted where it is the same as the volume year of the 'Record,' namely (1958).

Direction 90. Completion of the entry relating to the generic name *Argas* Latreille, 1795 (Class Arachnida, Order Acarina) made on the *Official List of Generic Names in Zoology* by the ruling given in *Opinion 73*. Opin. int. Comm. zool. Nom. **1F** : 39-50.

Direction 92. Correction of the entry relating to the generic name *Dermanyssus* Dugès, 1834 (Class Arachnida, Order Acarina) made on the *Official List of Generic Names in Zoology* by the ruling given in *Opinion 104*. Opin. int. Comm. zool. Nom. **1F** : 51-62.

Direction 93. Clarification and completion of the entry on the *Official List of Generic Names in Zoology* relating to the generic name *Chorioptes* Gervais & van Beneden, 1859 (Class Arachnida, Order Acarina) made by the Ruling given in *Opinion 104*. Opin. int. Comm. zool. Nom. **1F** : 63-72.

Direction 94. Clarification of the entry relating to the generic name *Sarcoptes* Latreille, [1802-1803] (Class Arachnida) made on the *Official List of Generic Names in Zoology* by the ruling given in *Opinion 113*. Opin. int. Comm. zool. Nom. **1F** : 73-86.

Opinion 523. Validation under the Plenary Powers of the emendation to *Palaeophonous* of the generic name *Palaeophoneus* Lindström & Thorell, 1884 (Class Arachnida). Opin. int. Comm. zool. Nom. **19** : 249-260.

Anon. Report of the meeting on the control of tick-borne diseases of livestock. Food & Agric. Organ. United Nations, Rome, Italy 1956 : 1-124.

Anon (1). Migrating horseshoe crabs. Illustr. London News **233** : 114, 162-163 10 photos.

Abo-El-Ghar, M. R. & Boudreaux, H. B. Comparative responses of five species of spider mites to four acaricides. J. econ. Ent. **51** : 518-522.

Abramov, I. V., see Markov, A. A.

[**Abusalimov, N. S.**]. [Cattle, pigs, wild sheep and jackal as hosts of *Hyalomma aegyptium*.] C.R. Acad. Sci. Azerb. SSR. **14** : 543-545. [In Russian.]

[**Abusalimov, N. S.**] (1). [Ixodids and the diseases they cause in agricultural animals in Azerbaijan.] Ninth Conf. parasit. Probl. 1957 : 4. [In Russian.]

Achuthan, H. N., see Alwar, V. S.

Adam, K. R. & Weiss, C. The occurrence of 5-hydroxytryptamine in scorpion venom. J. exp. Biol. **35** : 39-42 1 pl.

Aeschlimann, A. Développement embryonnaire d'*Ornithodoros moubata* (Murray) et transmission transovarienne de *Borrelia duttoni*. Acta Trop., Basel **15** : 15-64 figs. 1-24.

[**Afanasyeva, O. V. & Mikulin, M. A.**] [To the problem of the role of Ixodoidea in natural occurrence of disease.] Ninth Conf. parasit. Probl. 1957 : 10. [In Russian.]

Agarwal, R. A. The sugarcane mite (*Schizotetranychus andropogani* Hirst) and its control. Indian Sug. **7** 1957 : 394-399.

Agostini, L. & Cantore, G. P. Le alterazioni del sistema nervoso centrale di cavia intossicata con veleno di *Latrodectus tredecimguttatus* Rossi. Riv. Neurol. **28** : 391-398. [Not seen.]

Albacà, E., see Suarez, J. R. E.

Alber, M. A. Acarine disease in Uruguay. Bee World. **37** 1956 : 72. [Abstract.]

Alexander, A. J. *Peripatus*: Fierce little giant. Anim. Kingd. **61** : 122-125 3 figs.

Alexander, A. J. (1). On the stridulation of scorpions. Behaviour **12** : 339-352 pl. 9 fig.

Alexander, A. J. & Ewer, D. W. (2). Temperature adaptive behaviour in the scorpion, *Opistophthalmus latimanus* Koch. *J. exp. Biol.* **35** : 349-359 figs. 1-3.

Alfaro, A. La "arañuela roja" y su tratamiento. *Bol. Pat. veg. Ent. agric.* Madr. **21** 1954-1955 [1956] : 71-84 figs. 1-6.

[**Alimukhamedov, S. N.**] [Sheltering belts as reservoirs for *Tetranychus urticae* in Tashkent Province.] Ninth Conf. parasit. Probl. 1957 : 5. [In Russian.]

Allred, D. M. Mites found on mice of the genus *Peromyscus* in Utah. V.—Trombiculidae and miscellaneous families. *Gr. Basin Nat.* **17** : 95-102 figs. 1-5.

Allred, D. M. (1). A new species of pit mite (Acarina: Ophioptidae) infesting snakes. *Herpetologica* **14** : 107-112 figs. 1-8.

Allred, D. M. (2). Mites found on mice of the genus *Peromyscus* in Utah. IV. Families Laelaptidae and Phytoseiidae. (Acarina). *Pan-Pacific Ent.* **34** : 17-32 pls. 1-6.

Allred, D. M. (3). Redescription of *Ophioptes tropicalis* Ewing, 1933 (Acarina, Ophioptidae). *Proc. ent. Soc. Wash.* **60** : 287-288.

Allred, D. M. (4). Setal variations on mites of the species *Brevisterna utahensis* (Ewing) (Acarina). *Proc. Utah Acad. Sci. Arts & Lett.* **34** 1957 : 51-54 figs. 1-2.

Alvarez, V., see Tagle, I.

Alwar, V. S., Lalitha, C. M., & Achuthan, H. N. Depluming itch in fowls caused by the feather mite—*Megninia ginglymura* (Megnin)—a preliminary note. *Indian vet. J.* **35** : 621-623 figs. 1-2.

Amaro, J. P. & Soares de Gouveia, A. J. Aspectos da defesa fitossanitária dos produtos armazenados em Angola. *Estud. Ens. Docum. Jta Inv. Ultramar,* Lisboa No. 40 1957 : 1-169 figs. 1-92.

Ambrus, B. Zoogeographical bearings on the gall-nuts in Sopron and in its surroundings. *Allat. Kozlem.* **46** : 159-175 1 pl. 2 figs. [English summary.]

Amitai, P., see Shulov, A. (1).

Anderson, J. M., see Guthrie, M. J.

Anderson, N. H. & Morgan, C. V. G. Life-histories and habits of the clover mite, *Bryobia praetiosa* Koch, and the brown mite, *B. arborea* M. & A., in British Columbia (Acarina: Tetranychidae). *Canad. Ent.* **90** : 23-42 figs. 1-9.

Anderson, N. H. & Morgan, C. V. G. (1). The role of *Typhlodromus* spp. (Acarina: Phytoseiidae) in British Columbia. *Proc. 10th. Int. Cong. Ent. Montreal* **4** 1956 (1958) : 659-665 figs. 1-3.

Anderson, N. H., Morgan, C. V. G. & Chant, D. A. (2). Notes on occurrence of *Typhlodromus* and *Phytoseius* spp. in Southern British Columbia. *Canad. Ent.* **90** : 275-279 fig. 1.

Anderson, N. H., see Morgan, C. V. G. & (1).

André, J. Étude morphologique au microscope électronique de l'ovocyte de la Tégénaire (Aranéide). *Bull. Micr. appl.* **(2) 8** : 93-97 fig. 1.

André, J. (1). Découverte chez le scorpion *Euscorpius flavicaudis* d'une nouvelle ultrastructure mitochondriale. *C. R. Acad. Sci. Paris* **247** : 1232-1235 figs. 1-5.

André, J. & Rouiller, C. (2). The ultrastructure of the vitelline body in the oocyte of the spider *Tegenaria parietina*. *J. Biophys. & Biochem. Cytol.* **3** 1957 : 977-984. [Not seen.]

André, M. Acariens Thrombidions (adultes) de l'Angola. *Publ. cult. Comp. Diam. Angola No. 35* : 1-125 figs. 1-260.

[**Andreeva, O. N.**] [New findings of articulated animals in Eastern Siberia.] *Annu. Soc. paléont. russe.* **16** 1957 : 236-245 1 pl. [In Russian.]

Andres, L. A. & Reynolds, H. T. Laboratory determination of organophosphorous insecticide resistance in three species of *Tetranychus* on cotton. *J. econ. Ent.* **51** : 285-287 figs. 1-2.

Aniya, K., see Kano, R.

Ankel, W. E. Begegnung mit *Limulus*. 1. Die Form. *Natur u. Volk* **88** : 101-110 figs. 1-9.

Ankel, W. E. (1). Begegnung mit *Limulus*. 2. Die Leistung. *Natur u. Volk* **88** : 153-162 figs. 1-7.

Aoki, J. Eine neue Art von der Gattung *Oribotritia* Jacot (Acarina: Oribatei). *Acta arach.*, Tokyo **16** : 18-20 fig.

Aoki, J. I. (1). Einige Phthiracariden aus Utsukushigahara, Mitteljapan (Acarina: Oribatei). Annot. Zool. jap. 31 : 171-175 figs. 1-4.

Aoki, J. (2). Zwei *Heminothrus*-Arten aus Japan. (Acarina: Oribatei). Annot. zool. jap. 31 : 121-125 figs. 1-2.

Aoki, J. (3). Eine neue Gattung von Carabodidae aus der Insel Hachijo, Japan. (Acarina: Oribatei). Zool. Mag. Tokyo 67 : 390-392 figs. A-F. [In Japanese, German summary.]

Aoki, T. Histological studies on the so-called stylostome on hypopharynx in the tissues of the hosts parasitized by the trombiculid mites. Acta med. biol., Niigata 5 1957 : 103-120 figs. 1-11. [Not seen.]

Archer, A. F. Studies in the orb-weaving spiders (Argiopidae). Amer. Mus. Novit. No. 1922 : 1-21 figs. 1-40.

Archer, A. F. (1). Notes on the ecology of coffee plantations. J. Agric. Univ. P.R. 42 : 267-268.

Arnoldi, K. V. & Ghilarov, M.S. Soil fauna of Mediterranean habitats of the north-western Caucasus and its significance for the characteristics of these latter. Zool. Zh. 37 : 801-819. [In Russian, English summary.]

Arthur, D. R. *Ixodes* (Ixodoidea, Ixodidae) ticks from Israel. Bull. res. Coun. Israel 7B : 206-208 figs. 1-8.

Arthur, D. R. (1). New species of *Ixodes* ticks from eastern Africa, with a description of the male and nymph of *Ixodes oldi* Nuttall, 1913. Parasitology 48 : 38-69 figs. 1-91.

Arthur, D. R. (2). A review of some ticks (Acarina : Ixodidae) of sea birds, including a consideration of other cognate material. I. Parasitology 48 : 124-130 figs. 1-13.

[**Arzamasov, T. T.**] [Development of larval stages of *Ixodes ricinus* and *Dermacentor pictus*.] Bull. Inst. Biol. Minsk 3 1957 (1958) : 254-258. [In Russian.]

Asanuma, K. Chiggers found on a squirrel, *Sciurus vulgaris lis*, in Japan. Japan. J. sanit. Zool. 8 1957 : 181-182. [In Japanese.]

Asanuma, K. (1). Description of a new chigger mite, *Mackiena smadeli* n. sp. from a Japanese hedge-sparrow,

Prunella rubida rubida. Japan. J. sanit. Zool. 8 1957 : 231-234 figs. A-B. [In Japanese, English summary.]

Asanuma, K. (2). A new chigger mite, *Neoschöngastia hullinghorsti* sp. nov., from the long-billed ringed plover, *Charadrius placidus* Gray, in Saitama Prefecture, Japan. Misc. Rep. Res. Ins. nat. Resourc. Tokyo No. 45 1957: 69-73 figs. 1-5. [Japanese, English summary.]

Asanuma, K. & Fukuda, S. (3). On the life-history of a tick, *Ixodes signatus*, infesting a black tailed gull (*Larus crassirostris*) in Japan. Japan. J. sanit. Zool. 8 1957 : 147-159 figs. 1-16. [In Japanese.]

Asanuma, K. & Kosaka, K. (4). Notes on a tick, *Ixodes turdus* Nakatsui 1942 found on birds in Japan. Bull. Biogeogr. Soc. Japan 16-19 1955 : 192-196 figs. 1-4. [In Japanese.]

Asanuma, K. & Saito, Y. (5). Notes on chigger mites found on the Japanese hares, with a description of *Gahrliepia (Wachtia) masoni* n. sp. Japan. J. sanit. Zool. 8 1957 : 223-230 figs. 1-2. [In Japanese, English summary.]

Asanuma, K. & Sakurai, N. (6). On the seasonal occurrence of the tick, *Haemaphysalis flava*, on wild hares (*Lepus timidus brachyrurus*) in endemic area of Yato-byo or tularemia in Chiba Prefecture, Japan (A preliminary note). Misc. Rep. Res. Inst. nat. Resourc. No. 48 : 28-39 figs. 1-5. [In Japanese, English summary.]

Asanuma, K., see Sasa, M.

Asmera, J. *Ixodes ricinus* L., jako ektoparasit vrabce damaicho (*Passer domesticus* L.). Prirod. Sb. Ostravskho Kraje 18 1957 : 437-439. [Not seen.]

Athias-Henriot, C. *Phytoseiidae et Aceosejida* (Acarina, Gamasina) d'Algérie. II. Phytoseiidae: clé des genres *Amblyseius* Berlese (suite) et *Seiulus* Berlese. Bull. Soc. Hist. nat. Afr. N. 49 : 23-43 figs. 8-15.

Athias-Henriot, C. (1). Contribution à la connaissance du genre *Typhlodromus* Scheuten. (Acariens Parasitoformes, Phytoseiidae). Description de deux espèces nouvelles d'Algérie et clé des espèces du groupe *finlandicus*. Rev. Path. vég. 37 : 179-186 figs, 1-2.

Atkins, J. A., Wingo, C. W., Sodeman, W. A. & Flynn, J. E. Necrotic Arachnidism. Amer. J. trop. Med. Hyg. 7 : 165-184 figs. 1-17.

Atkins, J. A., see Sodeman, W. A.

Atyeo, W. T. The genus *Bonzia* in the New World. (Acarina, Cunaxidae). J. Kansas ent. Soc. 31 : 173-177 figs. 1-4.

Audy, J. R. Evolutionary aspects of trombiculid mite parasitization. Abstr. Pap. Cent. & Bicent. Congr. Univ. Malaya : 14-15.

Audy, J. R. (1). Parasites as ecological labels in vertebrate ecology. Abstr. Pap. Cent. & Bicent. Congr. Univ. Malaya : 17-18.

Audy, J. R. (2). The role of mite vectors in the natural history of scrub typhus. Proc. 10th. Int. Cong. Ent. Montreal 3 1956 (1958) : 639-649 figs. 1-4.

Audy, J. R. (3). The localization of disease with special reference to the zoonoses. Trans. Roy. Soc. trop. Med. Hyg. 52 : 308-328 figs. 1-2.

Bacelar, A. Some Araneidae of the islands of São Tomé and Príncipe. Conf. int. Afr. Occid. Sess. 6 4 : 37-46 figs. 1-2.

Baerg, W. J. The Tarantula. Lawrence, Kansas vii + 1-88 19 illustr.

Bai, A. R. K. & Parthasarathy, M. D. The chromosomes of *Thelyphonus indicus* Stoliczka. Proc. nat. Inst. Sci. India 24B : 19-22 figs. 1-5.

Bailey, L. The epidemiology of the infestation of the honeybee, *Apis mellifera* L., by the mite *Acarapis woodi* Rennie, and the mortality of infested bees. Parasitology 48 : 493-506 figs. 1-5.

Bailey, L. & Carlisle, E. (1). Tests with acaricides on *Acarapis woodi* (Rennie). Bee World 37 1956 : 85-94.

Baird, D. New records of paleozoic diplopod Myriapoda. J. Paleontol. 32 : 239-241.

Baker, E. W. The mite *Dermatophagooides scheremetewskyi* Bogdanov and its control in Russia. (Acarina, Psoroptidae.) Proc. ent. Soc. Wash. 60 : 125-126.

Baker, E. W. (1). *Chelacheles strabis-* *mus*, a new genus and species of mite from Portugal. Proc. ent. Soc. Wash. 60 : 234-235 figs. 1-4.

Baker, E. W., Camin, J. H., Cunliffe, F., Woolley, T. A. & Yunker, C. E. (2). Guide to the families of mites, with contributions by R. E. Crabill, jr., and G. Nunes. Inst. Acarology Univ. Maryland Contrib. No. 3 : 1-242 illust.

Baker, E. W., see Pritchard, A. E.

Baker, E. W., see Woolley, T. A. (5).

Baker, N. F., see Schaffer, M. H.

Bal, D. V., see Hiregauder, L. S.

Balashov, J. Specific features of the stage of feeding in the ticks (Ixodidae). Mag. Parasit. Leningrad 18 : 78-109 figs. 1-9. [In Russian, English summary.]

Balashov, J. (1). The excretion processes and activity of malpighian tubes of ticks. Mag. Parasit. Leningrad 18 : 120-128 figs. 1-3. [In Russian with English summary.]

[Balashov, Y. S.] [Gonotrophic relationships in Ixodidae.] Ninth Conf. parasit. Probl. 1957 : 12-13. [In Russian.]

[Balashov, Y. S.] (1). [Peculiarities in feeding of Ixodidae.] Ninth Conf. parasit. Probl. 1957 : 13-15. [In Russian.]

Balát, F., see Kratochvil, J.

Balazuc, J. & Dresco, E. Araignées et Opilions des grottes de l'Ardèche. Notes biospéol. No. 7 1952 : 83-94 map.

Balland, A.-M., see Remy, P. A. (4).

Balogh, J. Neue Epicriiden aus Bulgarien (Acari, Mesostigmata). Acta zool., Budapest 4 : 115-130 figs. 1-17.

Balogh, J. (1). Oribatides nouvelles de l'Afrique tropicale. Rev. Zool. Bot. afr. 58 : 1-34.

Balogh, J. (2). Macrocheliden aus Bulgarien (Acari, Mesostigmata). Sborn. ent. Odd. nár. Mus. Praze 32 : 247-256 figs. 1-37.

Balogh, J. (3). Lebensgemeinschaften der Handtiere. Ihre Erforschung unter besonderer Berücksichtigung der zoologischen Arbeitsmethoden. Budapest & Berlin (Akad. Verlag) : pp. 360, 125 figs.

Bang, F. B., see Shirodkar, M. V.

Barkahan, Z. S. The change in blood pressure and vascular tone in *Latrodectus tredecimguttatus* bite. Teraptevtskii Arkh. 28 1956 : 45-51. [In Russian.] [Not seen.]

Barlow, C. A. Distribution and seasonal activity in three species of diplopods. Arch. néerl. Zool. **13** : 108–133 figs. 1–16.

Barnes, M. M. Relationships among pruning time response, symptoms attributed to grape bud mite, and temporary early season boron deficiency. Hilgardia **28** : 193–226 figs. 1–16.

Barnes, R. D. North American jumping spiders of the subfamily Marpissinae (Araneae, Salticidae). Amer. Mus. Novit. No. 1867 : 1–50 figs. 1–75.

Barr, A. R. The occurrence of mites on mosquitoes. J. Parasit. **44** : 301.

Barra, S. Su un caso di morte in seguito a morso di *Latrodectus malmignatus*. Boll. Soc. ital. Biol. sper. **33** 1957 : 39.

Barra, S. (1). Un caso di morte per morso di *Latrodectus malmignatus*. Rass. Med. industr. 1957 : 539–543. [Not seen.]

Barrau, J. & Devambez, L. Quelques résultats inattendus de l'acclimation en Nouvelle-Caledonie. Terre et Vie **104** 1957 : 324–334.

Barrett, J. H. & Yonge, C. M. Pocket guide to the sea shore (Collins) London : 1–272 col. pls. 1–40 pls. i–xl figs. 1–179.

Barrett, S. Skin lesions of demodectic mange in the goat. Trans. roy. Soc. trop. Med. Hyg. **52** : 301. [Lab. meeting.]

[**Bashkirova, E. J.**] [Oribatid fauna in the virgin steppe of the southeast of the European part of the U.S.S.R. (with the description of new species).] Zool. Zh. **37** : 193–209 figs. 1–5. [In Russian, English summary.]

Basnuevo, J. G. Sarna o escabiosis. Rev. Kuba Med. trop. **13** 1957 : 81–83.

Baxter, M. G., see Raper, J. R.

Beer, R. E. The genus *Tarsonemella* Hirst, with description of a new species (Acarina, Tarsonemidae). J. Kansas ent. Soc. **31** : 188–192 pls. 1–2.

Beer, R. E. (1). A new species of *Stenotarsonemus*, and additional information on the plant-feeding habits of *Stenotarsonemus furcatus* De Leon (Acarina). J. N.Y. ent. Soc. **66** : 153–159 pls. 6–7.

Beer, R. E. & Lang, D. S. (2). The Tetranychidae of Mexico (Acarina). Univ. Kansas Sci. Bull. **38** : 1231–1259 figs. 1–6.

[**Beglyarov, G. A.**] [Biology of *Typhlodromus aberrans* Oudemans—a predator of tetranychids in Krasnodar-land.] Ninth Conf. parasit. Probl. 1957 : 15. [In Russian.]

Behura, B. K. The life-history of *Histiostoma polypori* (Oud.) (Acari: Tyroglyphoidea). J. N.Y. ent. Soc. **65** 1957 (1958) : 51–78 figs. 1–9.

Beier, M. The Pseudoscorpionidea (false-scorpions) of Natal and Zululand. Ann. Natal Mus. **14** : 155–187 figs. 1–16 map.

Beier, M. (1). Ueber Hoehlenbewohnende Pseudoscorpione aus Venezien. Boll. Mus. Civ. Stor. nat. Venezia **10** 1957 : 161–163 fig. 1.

Beier, M. (2). Pseudoscorpione aus Gargano (Apulien). Mem. Biogeogr. Adriatica **4** : 27–31 figs. 1–2.

Beier, M. (3). Eine neue *Neobisium*—Art aus den Picentinischen Bergen in Süd-Italien. Mem. Mus. Stor. nat. Verona **4** : 135–137 fig.

Beier, M. (4). Die Pseudoscorpioniden-Fauna der Juan-Fernandez-Inseln. (Arachnida Pseudoscorpionida). Rev. Chil. Ent. **5** 1957 : 451–464 figs. 1–4.

Beier, M., Reimoser, E. † & Kritscher, E. (5). Zoologische Studien in West-Griechland. S.B. öst. Akad. Wiss. Abt. I. **167** : 569–573.

Beier, M. see Ressl, F.

[**Belikova, N. P.**] [On the hibernation of ticks on animals.] Trud. delnevost. F. C. Akad. Nauk SSSR zool. **3** (VI) 1956 265–268. [In Russian.]

Belkovich, V. M., see Shilova, S. A. (1).

[**Belozerov, V. N.**] [Influence of humidity on breeding of gamasids.] Ninth Conf. parasit. Probl. 1957 : 16–17. [In Russian.]

Belozerov, V. N. (1). The influence of air humidity on the mite *Ornithonyssus bacoti* Hirst, 1913. (Parasitiformes, Liponyssidae). Rev. Ent. U.R.S.S. **37** : 47–63 figs. 1–12. [Russian, English summary.]

Benoit, P. L. G. Contribution à l'étude des Spinturnicidae du Congo Belge. Rev. Zool. Bot. afr. **57** : 96–100 figs. 1–5.

Benoit, P. L. G. (1). Contribution à l'étude des Spiturnicidae du Congo Belge. II. (Acarina-Mesostigmata). Rev. Zool. Bot. afr. 58 : 309-312.

Berezinay, Y., see Fain, A. (9).

Berker, J. Die natürlichen Feinde der Tetranychiden. Z. angew. Ent. 43 : 115-172 figs. 1-17.

Berla, H. F. Analgesidae neotropicais. I. Duas novas espécies de *Pterodectes* Robin, 1868 (Acarina-Proctophyllodinae) coletadas em Fringillidae, (Aves, Passeriformes.) Bol. Mus. nac. Rio de J. (Zool.) No. 186 : 1-6 figs. 1-6.

Berla, H. F. (1). Analgesidae neotropicais III. Redescricão de *Pteronyssus chiasma* Trouessart, 1885 (Acarina-Pterolichinae), hospede de Ramphastidae (Aves, Piciformes). Rev. bras. Biol. 18 : 337-339 figs. 1-4.

Berland, L. Remarques sur la faune entomologique des Antilles françaises. Proc. 10th. Int. Cong. Ent. Montreal 1 1956 (1958) : 839-842.

Berndt, R. & Rapsch, I. Materialien zur Kenntnis der Ernährungsweise des Trauerschnäppers (*Muscicapa hypoleuca muscipeta* Bechstein) im Kiefernforst. Anz. Schädlingesk. 31 : 24-27.

Bervoets, W., see Geerts, J.

Besseling, A. J. Notes sur des Hydrachnelles provenant du Grand-Duché de Luxembourg. Arch. Inst. Grand-Duc. Luxemb. Sect. Sci. N.S. 25 : 219-226.

Besseling, A. J. (1). Nederlandse Hydrachnelae XXXIX. Ent. Ber. Amst. 18 : 214-216 figs. 1-2.

Besseling, A. J. (2). Watermijten mit het Zuidlaardemeer. Levende Nat. 61 : 259-261.

Bessière, C., see Tuzet, O.

Bettini, S., see Cantone, G. P. & (2), (3).

Bettini, S., see Rivosecchi, L.

Binia, A., see Calvo, R. & (1).

Blazejewski, F. *Atypus muralis* Bertkau, a representative of the *Mygalomorphae* (Araneida) new to Poland. Fragm. faun. Warszawa 8 : 11-15 figs. 1-3.

Blower, J. G. British millipedes (Diplopoda) with keys to species.

Synopses of the British Fauna, (Linn. Soc.). Lond, No. 11 : 1-74 pl., figs. 1-85.

Boch, J. Beitrag zur Kenntnis der Lebensfähigkeit von Räudemilben (*Sarcopeltis rupicaprae*) der Gemse. Zbl. Vetmed. 4 1957 : 603-610. [Not seen.]

Boero, J. J. Las garrapatas de la Republica Argentina (Acarina-Ixodoidea). Univ. Buenos Aires [1957] : 1-113 pls. 1-54.

Boese, J. L., see Tipton, V. J.

Bohm, H. Haben Spinnmilben (Tetranychidae) natürliche Feinde? Pflanzenart. 11 : 9-11.

Böhm, L. K. & Supperer, R. Über eine eigenartige Dermatose bei der Erdmaus *Microtus agrestis* L. Durch, *Myocoptes tenax* Michael 1889 (Acarina, Listrophoridae) und über den Verschollenen *Myocoptes sciurinus* Hennemann 1910. Z. Parasitenk. 18 : 223-229 figs. 1-3. -

Boitschev, D., see Pavlov, P.

Boldirev, S. T., see Pervomaisky, G. S.

Bondarenko, N. V. [Peculiarities of the diapause of the spider mite. *Tetranychus urticae* and ways of controlling its population under conditions of greenhouses.] Konf. po Voprosam Zashch. Rast. Sborn. Trudov po Zashch. Rast. 1956 (1) : 127-132. [Russian]. [Not seen.]

[Bondarenko, N. V.] (1). [Diapause peculiarities in *Tetranychus urticae* Koch.] Zool. Zh. 37: 1012-1023. [In Russian, English summary.]

[Bondarenko, N. V. & Kuan, K. I.] Peculiar traits in the origin of diapa use in different geographic populations of *Tetranychus urticae* Koch.] C. R. Acad. Sci. URSS 119 : 1247-1250 fig. [In iRussian.]

Boness, M. Biocoenotische Untersuchungen über die Tierwelt von Klee-und Luzernfeldern. (Ein Beitrag zur Agrarökologie). Z. Morph. Ökol. Tiere 47 : 309-373 figs. 1-8.

Bonnet, P. Difficulties de nomenclature chez les aranéides. XVII. Il faut écrire *Theridium*. Bull. Soc. Hist. nat. Toulouse 92 (1957) 1958 : 231-239. [English translation A. TOWNSEND.]

Borek, V. Zur Phenologie unserer Weberknechte (Opilionidea). Acta Soc. ent. Čech. 55 : 297–298 figs.

Borek, V. (1). Neue Erkenntnisse von unseren Chilopoden. Práce Krajsk. Mus. Hradá Králové 1A : 10–16 figs. 1–14.

Borges Ferreira, L. D., see Taborda Duarte, A.

Borradaile, L. A. & Potts, F. A. with chapters by L. E. S. Eastham & J. T. Saunders, revised G. A. Kerkut. The Invertebrata. A manual for the use of students. 3rd edition. Cambridge, (Univ. Press), pp. xvii + 795, 523 figs.

Boudreaux, H. B. *Tetranychus tumidus* Banks versus *Tetranychus gloveri* Banks (Acarina, Tetranychidae). Ann. ent. Soc. Amer. 51 : 174–177 figs. 1–4.

Boudreaux, H. B. (1). The effect of relative humidity on egg-laying, hatching and survival in various spider mites. J. Insect Physiol. 2 : 65–72 fig. 1.

Boudreaux, H. B., see Abo-El-Ghar, M. R.

Bourdeau, F. G., see Camin, J. H. & (1).

Bourke, P. A. Nest fauna of the fairy martin. Emu 57 1957 : 205–208.

Bouron, H. Les acariens nuisibles aux arbres fruitiers. Arboricolt. Fruitière 1957 (43) : 9–11, 13. [Not seen.]

Bovey, P. Les actions secondaires des traitements antiparasitaires sur les populations d'insectes et d'acariens nuisibles. Schweiz. landw. Mh. 33 1955 : 369–379.

Boyer, F. D. Scorpionidae, una nueva familia del orden Scorpionida para Venezuela *Opisthacanthus lepturus* (Pal. de Beauv.), 1805. Bol. Soc. venezol. Cienc. nat. 18 1957 : 101–105 fig.

Boyle, W. W., see Haramoto, F. H.

Bradley, P. L. An assemblage of arthropod remains from a Roman occupation site at St. Albans. Nature, Lond. 181 : 435–436.

Brændegard, J. Araneida. Fridriksson & Tuxen Zoology of Iceland 3 Pt. 54 : 1–113 figs. 1–88.

Braga, F. M. Catalogo dos acaros que vivem nas plantas cultivadas e nos produtos armazenados no Brasil. Bol. fitossanit. 7 1957 : 31–44. [Not seen.]

Branzanti, E. C. [A mite on peaches *Phyllocoptes*.] Romagna agric. zootec. 42 1957 : 329–330. [Italian.] [Not seen.]

Braun, R. Das Sexualverhalten der Krabbenspinne *Diae dorsata* (F.) und der Zartspinne *Anypheona accentuata* (Walck.) als Hinweis auf ihre systematische Eingliederung. Zool. Anz. 160 : 119–134 figs. 1–4.

Bregetova, N. A new species of gamasid mite of the genus *Megalolaelaps* (Parasitiformes, Gamasoidea). Mag. Parasit. Leningrad. 18 : 177–179 figs. 1–3. [In Russian, English summary.]

Brennan, J. M. *Beamerella* and *Kaaiia*, two new genera of chiggers from South America (Acarina, Trombiculidae). J. Kansas ent. Soc. 31 : 71–75 figs. 1–2.

Brickhill, C. D. Biological studies of two species of tydeid mites from California. Hilgardia 27 : 601–620.

Bristowe, W. S. The world of spiders. London, (Collins) 1958 pp. xiii + 304, 36 pls. (4 col.) text illust.

Broadhead, E. Some records of animals preying upon psocids. Ent. mon. Mag. 94 : 68–69.

Brodniewicz, I. Über drei interessante *Glomeris*-Arten (Diplopoda) aus Grosspolen. Badania fizjogr. Polsk. Zachod. 4 : 265–267. [German summary.]

Brookes, R. F., Clark, N. G., Cranham, J. E., Greenwood, D., Marshall, J. R. & Stevenson, H. A. The toxicity of organic sulphides to the eggs and larvae of the glasshouse red spider mite. IV. Benzyl phenyl sulphides (substituted by halogens and other groups). J. Sci. Food. & Agric. 9 : 111–115.

Brookes, R. F., Cranham, J. E., Greenwood, D., Stevenson, H. A., Clark, N. G. & Marshall, J. R. (1). The toxicity of organic sulphides to the eggs and larvae of the glass-house red spider mite. J. Sci. Food & Agric. 8 1957 : 561–570. [Not seen.]

Browning, E. & Hyatt, K. H. 17. Scorpiones, Uropygi, Aranæae, Opiliones and Scolopendromorph Chilopoda from Rennell Island. Nat. Hist. Rennell Is. 2 1957 (1958) : 71–81.

Brun, M. I., see Vashkov, V. I.

Brundin, L. Albert Tullgren†. Ent. Tidskr. 79 : 1 photo.

Bryant, E. B., see Deichmann, E.

Buckup, E. H. Estudo das variações de *Bothriurus bonariensis* (Koch, 1842) e sobre a invalidez de *Bothriurus asper* Pocock 1893 e *Bothriurus semiellypticus* Prado 1934. *Iheringia, Zool.* No. 7 1957 : 1-33 pls. 1-5 chart.

Budnik, V. S., see Orlov, E. I.

Buecherl, W. Sobre a importância dos bulbos copuladores e das apófises tibiais dos machos na sistemática das aranhas caranguejeiras (Orthognatha). *An. Acad. brasil. Ciênc.* **29** : 377-416 figs. 1-96.

Buizova, Yu. B. [The distribution of mites and collembola in the soils of the Kursk central black earth reserves.] In Aleinikova M. M. & others: All-Union conference on soil zoology. Summary of papers. Moscow : 22-23. [In Russian.]

[**Bulanova-Zakhvatkina, E. M.**] [The problem on classification of representatives of Damaeidae (Oribatei).] Ninth Conf. parasit. Publ. 1957 : 26-27. [In Russian.]

Burgdorfer, W. Artificial feeding of ixodid ticks for studies on the transmission of disease agents. Proc. 10th. Int. Cong. Ent. Montreal **3** 1956 (1958) : 839. [Abstract.]

Busnel, R.-G., see Vachon, M. (9).

Buyakova, T. G., see Goncharova, A. A.

Byers, G. W. The reproduction of chigger-mites (Acarina: Trombiculidae). Proc. 10th. Int. Cong. Ent. Montreal **1** 1956 (1958) : 925 [Abstract].

Cahn, M. M. & Shechter, F. R. Pruritus from unusual source, bird mites: Report of a case. *J. Amer. med. Assoc.* **167** : 724-726 figs. 1-2.

Cailleux, A., see Chavan, A.

Calvo, R., Chionetti, I. J., Fasciolo, J. C., Binia, A., Puebla, M. M., Zangheri, E. & Fernandez, R. Mécanisme de l'action hypertensive du venin de *Latrodectus mactans*. *C.R. Soc. Biol. Paris* **152** : 193-194.

Calvo, R., Chionetti, I. J., Fasciolo, J. C., Binia, A., Puebla, M. M., Zangheri, E. & Fernandez, F. (1). Mecanismo de la accion presora del veneno de araña *Latrodectus mactans*. *Rev. Soc. argent. Biol.* **33** 1957 : 309-319 figs. 1-14. [English summary.]

Cameron, T. W. M. Parasites of animals and human disease. *Ann. N.Y. Acad. Sci.* **70** : 564-573.

Camin, J. H., Bourdeau, F. G. & Clark, G. M. Leg segmentation in the Acarina and other Arachnida. *Proc. 10th. Int. Cong. Ent. Montreal* **1** 1956 (1958) : 875. [Abstract.]

Camin, J. H., Clark, G. M. & Bourdeau, F. G. (1). The palpal "Tined seta" in the Mesostigmata, a homologue of the palpal claw in the Onychopalpida (Acarina). *Proc. 10th. Int. Cong. Ent. Montreal* **1** 1956 (1958) : 903-908 figs. 1-14.

Camin, J. H. & Hull, R. W. (2). Mite transmission of haemogregarines and filariasis in captive snakes. *Proc. 10th. Int. Cong. Ent. Montreal* **3** 1956 (1958) 513. [Abstract.]

Camin, J. H., see Baker, E. W. (3).

Canham, A., see Stephan, S.

Cantore, G. P. Contributo allo studio dell'azione farmacologica del veleno di *Latrodectus tredecimguttatus* Rossi. *Riv. Parassit.* **19** : 158-160 figs. 1-2.

Cantore, G. P. & Bettini, S. (1). Contributo allo studio del veleno di *Latrodectus tredecimguttatus* Ross. *R.C. Int. sup. Sanit.* **21** : 794-805 figs. 1-4.

Cantore, G. P. & Bettini, S. (2). Contributo allo studio dell'azione farmacologica del veleno di *Latrodectus tredecimguttatus* Rossi. II. Azione sulla muscolatura bronchiale. *Riv. Parassit.* **19** : 297-300.

Cantore, G. P. & Bettini, S. (3). Contributo allo studio dell'azione farmacologica del veleno di *Latrodectus tredecimguttatus* Rossi. III. Azione sul ritmo cardiaco e sul circolo arterioso. *Riv. Parassit.* **19** : 301-306 fig. 1.

Cantore, G. P., see Agostini, L.

Carlisle, E., see Bailey, L. (1).

Carpentier, J., see Fain, A. (8).

Carvalho, J. C. M., see Palmer, A. R.

Castello de Plandolit, F. Los piojos de la gallina y del gallinero. *Avicult. Téc.* **8** 1957 : 277-281. [Not seen.]

Castiaux, P. see Rasmont, R. (1).

Caubergh, H., see Geerts, J.

Causey, N. B. Pill millipedes (Desmonidae, Polydesmida) in the United States. *Proc. biol. Soc. Wash.* **71** : 173-178 figs. 1-3.

Causey, N. B. (1). New records and descriptions of a new genus and a new species of millipedes of the family Striariidae (Chordeumida). Proc. biol. Soc. Wash. **71** : 179-183.

Černý, V. Die Saisondynamik der Zecke *Ixodes ricinus* auf den von Zecken befallenen Waldflächen. Česk. Parasit. **4** 1957 : 57-84 figs. 1-6. [In Czech, Russian & German summaries.]

Černý, V. (1). Entwicklungszyklus der Zecke *Ixodes ricinus* L. im gemischten Walde von Mittelböhmien. Česk. Parasit. **5** : 21-26 fig. 1. [In Czech, Russian & German summaries.]

Ceuca, T. Contributions à la connaissance des diplopodes de la faune de la République Populaire Roumaine. III. Diplopodes cavernicoles. Stud. Cercet. Biol. Cluj **9** : 335-343 figs. 1-9. [French résumé.]

Chaboussou, F. État actuel de la lutte chimique contre les tétranyques nuisibles aux arbres fruitiers en Europe. Ann. Inst. nat. agron. Paris. Ser. C. Ann. Epiphyt. **9** : 77-93.

Chaboussou, F. (1). Résultats d'essais acaricides vis à vis de *Bryobia praetiosa* Koch sur pécher et de *Metatetranychus ulmi* Koch sur pommier en 1955. Phytiat. Phytopharm. **5** 1956 : 203-211.

Chaboussou, F. & Ramadier, P. (2). La lutte contre les pucerons et les acariens des arbres fruitiers. Essais de nouveaux produits. Rev. Zool. Agric. **55** 1956 : 117-133.

Chamberlin, R. V. Some records of chilopods from Florida. Ent. News **69** : 13-15.

Chamberlin, R. V. (1). A new lysiopetalid diplopod from Arizona. Ent. News **69** : 121-122 fig. 1.

Chamberlin, R. V. (2). 29. Millipedes and centipedes from Rennell and Guadalcanal Islands. Nat. Hist. Rennell Is. **2** : 207-212 figs. 1-4.

Chamberlin, R. V. (3). Five new south American chilopods. Proc. biol. Soc. Wash. **71** : 57-60.

Chamberlin, R. V. (4). Occurrence of the chilopod genus *Ethmostigmus* in America. Proc. biol. Soc. Wash. **71** : 185-186 figs. 1-3.

Chamberlin, R. V. & Gertsch, W. J. (5). The spider family Dictynidae in

America, north of Mexico. Bull. Amer. Mus. Hist. nat. **116** : 1-152 pls. 1-47 figs. 1-37.

Chamberlin, R. V. & Hoffman, R. L. (6). Checklist of the millipedes of North America. Bull. U.S. nat. Mus. No. **212** : 1-236.

Chang, A. C. On the discovery of the Wenlockian Eurypteris-fauna from South China. Acta palaeont. sinica **5** 1957 : 439-450 pls. 1-2. [In Chinese, English summary.]

Chang, P.-h. A study on the *Ambylochoma cyprium* Neumann, 1899, collected from human body. Acta ent. sinica **8** : 290-292 figs. 1-3. [In Chinese.]

Channa Basavanna, G. P. & Puttarudriah, M. Some predators of mites in Mysore. Mysore agric. J. **32** 1957 (1958) : 179-185.

Channa Basavanna, G.P., see Puttarudriah, M. (1).

Chant, D. A. Predaceous spiders and mites on fruit trees. Ann. Rept. E. Malling Res. Sta. 1956 (1957) : 175-178 figs.

Chant, D. A. (1). Descriptions of six new species of *Garmania* Nesbitt and *Lasioscirus* Berlese (Acarina: Aceosediidae). Canad. J. Zool. **36** : 383-390 figs. 1-18.

Chant, D. A. (2). Immature and adult stages of some British Phytoseiidae Berl., 1916. [Acarina.] J. Linn. Soc. (Zool.) **43** : 599-643 figs. 1-26.

Chant, D. A. (3). On the ecology of typhlodromid mites in Southeastern England. Proc. 10th. Int. Cong. Ent. Montreal **4** 1956 (1958) : 649-658 figs. 1-5.

Chant, D. A., see Anderson, N. H. (2).

Chauhan, B. S. A list of references relating to Indian zoology (dealing with general parasitology, excluding helminthology) published during the years 1938-1950. Rec. Indian Mus. **52** 1956 : 367-386.

Chavan, A. & Cailleux, A. Détermination pratique des fossiles, Paris, 1957 : 1-385 figs. 1-2959.

Chen, H. T. & Hsu, P. K. Studies on the trombiculid larvae of the genus *Neoschöngastia* from China. Acta zool. sinica **10** : 377-384 pls. 1-2. [In Chinese, English summary.]

Chen, H. T. & Hsu, P. K. (1). Species of trombiculid larvae and their distribution. *Acta zool. sinica* **10** : 404-415. [In Chinese, English summary.]

Chen, H. T., Hsu, P. K. & Wang, D. C. (2). Studies on the trombiculid mites of the genus *Euschöngastia*, with a description of two new varieties. *Acta zool. sinica* **10** : 388-398 pls. 1-4. [In Chinese, English summary.]

Chen, H.-T., see Hsu, P.-K.

[**Chernishev, V. I.**] [On the ecology and parasitic fauna of jackals in Tadzhikistan.] *Trud. Inst. Zool. Parasit. Stalinabad* **2** 1954 151-165 figs. 1-2. [In Russian.]

China, W. E. Obituary—Teiso Esaki. *Ent. mon. Mag.* **94** : 132 photo.

Chionetti, I. J., see Calvo, R. & (1).

Chrysanthus, Fr. Notes on spiders. III. The females of some *Clubiona* species. *Ent. Ber. Amst.* **18** : 111-115 figs. a-c.

Chrysanthus, P. (1). Spinnen uit Limburg V (1954-1956). *Natuurh. Maandbl.* **46** 1957 : 31.

Chrysanthus, P. (2). Spiders from South New Guinea, I. Nova Guinea N.S. **9** : 235-243 figs. 1-24.

Cirdei, F. Contributions à l'étude des Opilionides dans le nord-ouest de notre pays et dans le bassin supérieur du Pruth. *An. Sti. Univ. "A. I. Cuza" Iași* (2) **4** : 353-386 pls. 1-10. [French, etc, summaries.]

Clancy, D. W. & McAlister, H. J. Effects of spray practices on apple mites and their predators in West Virginia. *Proc. 10th Int. Cong. Ent. Montreal* **4** 1956 (1958) : 597-601.

Clark, G. M. *Hepatozoon griseisciuri* n. sp.; a new species of Hepatozoon from the grey squirrel (*Sciurus carolinensis* Gmelin, 1788), with studies on the life cycle. *J. Parasit.* **44** : 52-63 pls. 1-4.

Clark, G. M. (1). One new and one previously unreported species of nasal mite (Acarina, Speleognathidae) from North American birds. *Proc. helm. Soc. Wash.* **25** : 78-86 figs. 1-13.

Clark, G. M., see Camin, J. H. & (1).

Clark, N. G., see Brookes, R. F. & (1).

Clark, W. C. Some Pycnogonida from Cook Strait, New Zealand, with descriptions of two new species. *Zool. Publ. Vict. Univ. N.Z.* No. **23** : 1-7 figs. 1-22.

Cleland, J. W. The control of the meal mite with lindane. *N.Z. Ent.* **1** 1954 : 1-3.

Cleveland, M. L. Field studies in the control of orchard mites in 1957. *J. econ. Ent.* **51** : 713-714.

Cloudsley-Thompson, J. L. Notes on Arachnida 29—Drinking by scorpions: 30—Scorpions in England. *Ent. mon. Mag.* **94** : 229 & 238.

Cloudsley-Thompson, J. L. (1). Notes on Arachnida 31.—Observations on *Atypus affinis* Eichw. *Ent. mon. Mag.* **94** : 288.

Cloudsley-Thompson, J. L. (2). The behaviour of false-scorpions. *Naturalist No. 866* : 96.

Cloudsley-Thompson, J. L. (3). Spiders, scorpions, centipedes and mites. The ecology and natural history of woodlice, 'myriapods' and arachnids. (Pergamon Press) London : i-xiv 1-228 pls. 1-17 + 1 figs. 1-40.

Cloudsley-Thompson, J. L. & Sankey, J. H. P. (4). Some aspects of the fauna of the district around Juniper Hall, Mickleham, Surrey. IV. *Ent. mon. Mag.* **94** : 43-47.

Cohen, A. From the life of spiders. *Natura, Bucureşti* **10** : 86-101 figs. 1-17. [English summary.]

Cohen, A. (1). Observations sur la copulation des araignées: *Linyphia fontetorum* C. L. Koch et *Argiope lobata* Pall. *Trav. Mus. Hist. nat. "Gr. Antipa"* **1** 1957 : 275-284 figs. 1-5.

Collado, J. G. Animales cebo y otros medios modernos de lucha contra los artrópodos de interés parasitológico. *Med. trop. Madrid* **29** 1957 : 85-102.

Collyer, E. & Massee, A. M. Some predators of phytophagous mites, and their occurrence, in Southeastern England. *Proc. 10th. Int. Cong. Ent. Montreal* **4** 1956 (1958) : 623-626.

Colom, G. Biogeografía de las Baleares. Palma de Mallorca. 1957 : 1-568 figs. 1-119.

Commeau, J. & Marre, R. Parasites rencontrés au cours de contrôles phytosanitaires sur produits végétaux importés par le port du Havre. Rev. Soc. Sav. Haute Norm. No. 5 1957 : 143-145.

Complin, J. O., see Jeppson, L. R. & (1).

Condé, B. Une *Koenenia* cavernicole de Roumanie. Notes biospéol. 9 1954 : 145-148 figs. A-D.

Condé, B. (1). Une *Koenenia* cavernicole de Sardaigne [Arachnides Microtéléphonides.] Notes biospéol. 11 1956 : 13-16 fig. A-D.

Cook, D. R. A new species of *Litarachna* from the British West Indies. (Acarina: Pontarachnidae). Proc. ent. Soc. Wash. 60 : 19-22 figs. 1-6.

Cook, D. R., see Palmer, A. R.

Cooreman, J. Note sur *Laelaps (Macrolaelaps) multispinosus* Banks, 1909 (Parasitiformes, Laelaptidae), parasite du rat musqué (*Ondatra zibethica*). Bull. Ann. Soc. ent. Belg. 94 : 348-356 figs. 1-14.

Cooreman, J. (1). *Halarachne halichoeri* Allman, acarien parasite du poque *Halichoerus grypus* (Fabricius). Bull. Ann. Soc. ent. Belg. 94 : 159-168 figs. 1-2.

Cooreman, J. (2). Acariens du Congo Belge (2me Série). Note sur le genre *Caeculisoma* Berlese, 1888 (Acari, Erythraeidae) et description d'une espèce nouvelle du Congo Belge. Rev. Zool. Bot. afr. 58 : 43-53 figs. 1-12.

Copeland, M. J. The Arthropod fauna of the Upper Carboniferous rocks of the Maritime Provinces. Mem. geol. Surv. Can. 286 1957 : 1-110 pls. 1-21 figs. 1-2.

Costa, A. S. Name of the mite that causes bronzing of the Mocó cotton. Bragantia 15 1956 : XXI. [Portuguese: English summary.]

Costa, A. S., Mello do Mascimento, F. & Escorol Borges, H. (1). Observações sobre o bronzeado do algodeiro Moco. Bragantia 14 1954-1955 : 27-34 2 photos. [Not seen.]

Coulon, J. Sur la sensibilité des œufs de *Tetranychus telarius* L., pendant la période d'incubation. C.R. Acad. Sci. Paris 246 : 3696-3698.

Crabill, R. E. Report of *Geophilus proximus* in North America, with a key to its eastern North American congeners (Chilopoda: Geophilomorpha: Geophilidae). Ent. News 69 : 15-17.

Crabill, R. E. jr. (1). On a collection of centipedes from Wisconsin (Chilopoda). Ent. News 69 : 93-99.

Crabill, R. E. (2). A new schendylid from the Eastern United States, with notes on distribution and morphology. (Chilopoda: Geophilomorpha: Schendylidae). Ent. News 69 : 153-160 figs. 1-14.

Crabill, R. E., Jr. (3). A new *Eulithobius*, with a key to the known American species (Chilopoda: Lithobiidae). J. Wash. Acad. Sci. 48 : 260-262.

Crabill, R. E. jr., see Baker, E. W. (2).

Cranham, J. E., see Brookes, R. F. & (1).

Crome, W. Blutdruckbedingte Stachelbewegungen an Spinnenbeinen (Araeae). Dtsch. ent. Z. N.F. 4 1957 : 359-362 figs. 1-3.

Cromroy, H. L. A preliminary survey of the plant mites of Puerto Rico. J. Agric. Univ. Puerto Rico 42 : 39-144 figs. 1-54.

Cunliffe, F. *Pyroglyphus morlani*, a new genus and species of mite forming a new family, Pyroglyphidae, in the Acaridae. Acarina, Sarcoptiformes. Proc. ent. Soc. Wash. 60 : 85-86 figs. 1-6.

Cunliffe, F., see Baker, E. W. (2).

Curl, E. A. Chemical exclusion of mites from laboratory fungal cultures. Plant. Dis. Reporter 42 : 1026-1029.

Curl, E. A., see Himelick, E. B.

Cutright, C. R. Reactions of different populations of *Panonychus ulmi* to various phosphorus-based acaricides. J. econ. Ent. 51 : 255.

Czajka, M. New stations of two rare spiders in Poland. Przegl. zool. 1 1957 (1958) : 178-179. [In Polish, English summary.]

Dabelow, S. Zur Biologie der Leimschleuderspinne *Scytodes thoracica* (Latreille). Zool. Jahrb. (Syst.) 86 : 85-126 figs. 1-26.

Dagert, B., F. Resultados zoológicos de la expedición de la Universidad Central de Venezuela a la región del Auyantepui en la Guayana Venezolana, Abril de 1956. 2. Notas sobre los escorpiones de la región de Auyantepui, Estado Bolívar, Venezuela. Acta biol. venezol. 2 1957 : 127-133 fig. 1.

Dalenius, P. & Wilson, O. On the soil fauna of the Antarctic and of the Sub-Antarctic Islands. The Oribatidae (Acaria). Ark. Zool. N.S. 11 : 393-425 figs. 1-10.

Dalton, R. F. Report on Dorset natural history for 1957. Arthropods other than Lepidoptera. Proc. Dorset nat. Hist. arch. Soc. 79 : 26-27.

Daniel, M. Ecology of trombiculid-larvae (Acaria: Trombiculidae) on small mammals in low-lying country in Czechoslovakia. Česk. parazit. 4 1957 : 85-111 figs. 1-6. [English summary.]

Daniel, M. (1). The seasonal dynamics of the infestation of small mammals by chigger larvae in a lowland forest of periodically inundated area. Mém. Soc. zool. tchécosl. 22 : 156-179 figs. 1-6.

Darby, R. T. Further notes on the Hydracarina. Microscope 11 : 259-267 figs. 1-4.

Darby, R. T. (1). Further notes on the Hydracarina—Part two. Microscope 11 285-294 pls. 1-2.

Darteville, E. Les Péripates. Congo-Tervuren 2 1956 : 65-68.

Davidson, J. A. A new species of lizard mite and a generic key to the family Pterygosomidae. (Acarina, Anystoidea). Proc. ent. Soc. Wash. 60 : 75-79 figs. 1-8.

Davis, T. W. Hemiplegia from a black widow spider bite. J. Louisiana State med. Soc. 108 1956 : 123-126. [Not seen.]

Davydov, G. S., see Lototskii, B. V. (1).

Dawson, E. W. Exotic millipedes (Diplopoda) in New Zealand. N.Z. Ent. 2 : 1-5.

Dawson, R. W. B. More spiders from the Warwick area collected by the late L. T. Morris. Rep. Warwick. nat. Hist. Soc. No. 4 : 23-24.

Debbink, C. E., see Fox, I. (1).

Deichmann, E. Elizabeth Bangs Bryant. [April 7, 1875-January 6, 1953.] Psyche 65 : 3-10 photo.

De Leon, D. Four new *Typhlodromus* from Southern Florida (Acarina: Phytoseiidae). Florida Ent. 41 : 73-76 figs. 1-12.

DeLeon, D. (1). The genus *Neophyllobius* in Mexico (Acarina: Neophyllobiidae). Florida Ent. 41 : 173-181 figs. 1-15.

Demange, J.-M. Un nouveau genre et une nouvelle espèce de Myriapodes du Mont Nimba (Guinée) (Diplopodes, Spirostreptidae). Bull. Mus. Hist. nat. Paris (2) 30 : 271-275 figs. 1-8.

Demange, J.-M. (1). Myriapodes chilopodes (Lithobioidea) de la collection de l'Institut Scientifique Chérifien et remarques sur quelques-uns d'entre eux. Bull. Soc. Sci. nat. Maroc 37 1957 : 239-249 figs. 1-7.

Demange, J.-M. (2). Deux sous-espèces nouvelles de Myriapodes Chilopodes (Lithobioidea) des collections de l'Institut scientifique chérifien (Note préliminaire). C.R. Soc. Sci. nat. Maroc 24 : 35.

Demange, J.-M. (3). Myriapodes cavernicoles de France, avec la description d'une espèce et d'une variété nouvelles. Notes biospéol. 10 1955 : 191-200 figs. 1-8.

Demange, J.-M. (4). Étude sur *Lithobius troglodytes* et ses variétés, et description de deux formes nouvelles. Notes biospéol. 11 1956 : 107-121 fig.

Demange, J.-M. (5). Contribution à l'étude de la faune cavernicole de l'ouest de la France [Myriapodes.] Notes biospéol. 12 1957 : 25-28 figs. 1-2.

Demange, J.-M. (6). Trois nouveaux Myriapodes cavernicoles de France. Notes biospéol. 13 : 53-56 figs. 1-7.

Demange, J.-M. (7). Sur quelques Myriapodes cavernicoles de France et de Suisse. Rev. suisse Zool. 65 : 843-855 figs. 1-12.

Denis, J. Quelques micro-araignées de Belgique. Bull. Inst. Sci. nat. Belg. 34 (29) : 1-14 figs. 1-5.

Denis, J. (1). Une araignée nouvelle pour le Nord de la France. Bull. Soc. ent. Nord Fr. No. 97 : 3.

Denis, J. (2). Quelques Erigonides et Linyphiides de Clairmarais (P. d. C.). Bull. Soc. ent. Nord Fr. No. 99 : 2.

Denis, J. (3). Araignées du massif calcaire des Eaux-Bonnes (Basses-Pyrénées). Bull. Soc. Hist. nat. Toulouse 92 (1957) 1958 : 245-258 figs. 1-8.

Denis, J. (4). Captures d'araignées dans quelques grottes de France. Notes biospéol. 12 1957 : 123-125.

Denis, J. (5). Zoologisch-systematische Ergebnisse der Studienreise von H. Janetschek und W. Steiner in die spanische Sierra Nevada 1954. VII. Araneae. S.B. öst. Akad. Wiss. Abt. I. 166 1957 : 265-302 figs. 1-23.

Denis, J. & Dresco, E. (6). Araignées cavernicoles du Maroc. Notes biospéol. 12 1957 : 49-52 figs. 1-3.

Derouet, L. Action du CO₂ sur le métabolisme respiratoire de deux araignées troglophiles. Notes biospéol. 11 1956 : 83-87.

Derouet, L. & Dresco, E. (1). Présence de *Liobunum rotundum* (Latr.) dans les grottes de Recloses (S.-et-M.) (Opiliones). Entomologiste, Paris 14 83-84.

Derouet, L. & Dresco, E. (2). Études sur la grotte de Pèneblanque. I. Faune et climats. Notes biospéol. 10 1955 : 123-131.

Devambez, L., see Barrau, J.

Dias, J. A. Travassos Santos. Notes on various ticks (Acarina-Ixodoidea) in collection at some entomological institutes in Paris and London. An. Inst. Med. trop. Lisboa 15 : 459-563.

Dias, J. A. Travassos Santos (1). Notas Ixodologicas. III. Sobre duas espécies do género *Aponomma* Neumann, 1899 da Região Oriental. Mem. Mus. zool. Univ. Coimbra No. 249 : 1-9 figs. 1-2.

Dias, J. A. Travassos Santos (2). Notas Ixodologicas. IV. Estudo de alguns espécimes-tipos de Schulze em colecção no Museu de Hamburgo. Mem. Mus. zool. Univ. Coimbra No. 250 : 1-15.

Dias, J. A. Travassos Santos (3). Notas Ixodológicas. V. Acerca de alguns Ixodeidos do Museu do Hamburgo. Mem. Mus. Zool. Univ. Coimbra No. 253 : 1-32 figs. 1-5.

Dias, J. A. Travassos Santos (4). Identificação de uma segunda forma pequena de carraça africana do "grupo *leachii*" *Haemaphysalis ethiopica* n. sp. Moçambique No. 88 : 87-108 figs. 1-8.

Dias, V. S. Acaricides. IV. Control of mites. Gaz. Agric. Angola 2 1957 : 601-605. [Portuguese.] [Not seen.]

Dietvorst, F. C., see Meltzer, J.

Dillon, L. S. Reproductive isolation among certain spider mites of the *Tetranychus telarius* complex, with preliminary systematic notes. Ann. ent. Soc. Amer. 51 : 441-448 figs. 1-10.

Dobroruka, L. J. Čtyři stonožky (Chilopoda), nové pro faunu ČSR. Vier, für die ČSR neue Chilopoden-Formen. Cas. Národ. Mus. 126 1957 : 156-158 figs. 1-2. [German summary.]

Dobroruka, L. J. (1). Beitrag zur Kenntnis der Tausendfüssler aus Tatra (Chilopoda). Mém. Soc. zool. tchécosl. 22 : 113-120 figs. 1-3.

Dobroruka, L. J. (2). Chilopoden des Belgischen Congo, gesammelt von Prof. Dr. Ing. Herbert Franz. Rev. Zool. Bot. afr. 58 : 54-61 figs. 1-5.

Dobroruka, L. J. (3). Symphyla from Czechoslovakia. Sb. Krajsk. Vlast. Mus. Olomouc 3A 1955 : 193-197 figs. 1-4. [English summary.]

Dobroruka, L. J. (4). Anmerkungen nach Tschechoslowakischen Vertreter der Gattung *Scolioplanes* (Chilopoda). Sb. Krajsk. Vlast. Mus. Olomouc 3A 1955 : 201-204. [German summary.]

Dobroruka, L. J. (5). Neue Chilopoden aus Böhmen. Zool. Anz. 160 : 25-28 fig. 1.

Dobroruka, L. J. (6). Chilopoden aus Batumi und Tbilisi, gesammelt von J. Rotter. Zool. Anz. 160 : 204-206 fig. 1.

Domrow, R. New and little known Australian Laelaptidae (Acarina). Proc. Linn. Soc. N.S.W. 82 : 352-366 figs. 1-20.

Domrow, R. (1). A summary of the Atopomelinae (Acarina, Listrophoridae). Proc. Linn. Soc. N.S.W. 83 : 40-54 figs. 1-9.

Dondale, C. D. Note on population densities of spiders (Araneae) in Nova Scotia apple orchards. Canad. Ent. 90 : 111-113.

Dondale, C. D. (1). Two new species of *Ceraticelus* (Araneae: Eriigonidae) from western North America. Canad. Ent. 90 : 155-157 figs. 1-3.

Donigiewicz, K. see Szwabowicz, K.

Doro, D. S., Ornelas, E. S. & Johnson, R.M. Failure to induce allergic response in guinea pigs with scorpion venom. J. Allergy 28 1957 : 540-541.

Dosse, G. Die Spermathecae, ein zusätzliches Bestimmungsmerkmal bei Raubmilben (Acar., Phytoseiidae). PflSchBer. 20 : 1-11 figs.

Dosse, G. (1). Über einige neue Raubmilbenarten (Acar. Phytoseiidae). PflSchBer. 21 : 44-61 figs. 1-15.

Dresco, E. Sur la capture de *Thyreosthenius becki* (Cb.) à Paris (Araneae). Entomologiste 13 6 (1957) 1958 : 117-120.

Dresco, E. (1). Répartition de *Querihacia querihaci* (Lucas). [Opiliones Phalangodidae.] Notes biospéol. No. 7 1952 : 81-82.

Dresco, E. (2). Remarques sur les *Centromerus* du groupe *paradoxus* et description de deux espèces nouvelles [Araneae.] Notes biospéol. No. 7 1952 : 95-100 figs. 1-7.

Dresco, E. (3). Répartition d'*Ischyropsalis luteipes* Simon. [Opiliones, Ischyropsalidae.] Notes biospéol. No. 7 1952 : 101-104.

Dresco, E. (4). Description d'une araignée cavernicole nouvelle du genre *Paraleptoneta*. Notes biospéol. 9 1954 : 45-48 figs. 1-7.

Dresco, E. (5). Deuxième note sur le genre *Sabacon* E. Simon, [Opiliones.] Notes biospéol. 10 1955 : 41-44 figs. 1-2.

Dresco, E. (6). Note sur *Astrobunus grallator* Sim. (Opiliones). Vie et Milieu 9 : 114-115.

Dresco, E., see Balazuc, J.

Dresco, E., see Denis, J. (6).

Dresco, E., see Derouet, L. (1) (2).

Drozdova, Y. V., see Shilova, S. A.

Drózdz, J. Penetration of *Ixodes ricinus* (L.) under the skin of the host. Acta Parasit. polon. 6 : 383-385 pl. 1.

[Dubinin, V. B.] [On the orientation of the cephalic segment in Devonian Pycnogonida & the genus *Palaeoisopus*,

and their position in the system of the Arthropoda.] C.R. Acad. Sci. URSS 117 : 881-884 figs. 1-2. [In Russian.]

[Dubinin, V. B.] (1). [Directions in the study of vegetarian and predatory parasitic mites occurring on plants.] Ninth Conf. parasit. Probl. 1957 : 81-82. [In Russian.]

[Dubinin, V. B.] (2). [On a new classification of mites Class Acaromorpha W. Dubinin and its position in the system of chelicerate animals, Cheliceroidea W. Dubinin. Ninth Conf. parasit. Probl. 1957 : 82-85. [In Russian.]

Dubinin, V. B., Grebenyuk, R. V. & Steshenko, V. M. (3). [The seab of *Capra sibirica* Meyer in Kirgizia.] Izv. Akad. Nauk Kirgiz. SSR. 6 : 137-154 figs. 1-12. [In Russian.]

Dubinin, V. & Karpovitch, V. (4). La nouvelle espèce de l'acarien *Eadiea longisetosa* sp. nov. (Acaromorpha, Acariformes, Myobiidae) chez *Desmana*. Mag. Parasit. Leningrad 18 : 183-198 figs. 1-10. [In Russian, French summary.]

Dubinin, V. B. & Vassilev, I. (5). Ecological and physiological peculiarities of individuals of various populations of feather Acari (Acariformes, Analgesoidea) inhabiting birds of different geographical zones. Bull. Inst. zool. Acad. Sci. Bulg. 7 : 91-114 figs. 1-4. [In Russian, English summary.]

Dudich, E. Die Grundlagen der Fauna eines Karpaten-Flusses. Acta zool. Budapest 3 : 179-200 map.

Duffy, E., Locket, G. H. & Millidge, A. F. The spider fauna of the heaths and fens in West Suffolk. Trans. Suffolk Nat. Soc. 10 1957 [1958] : 199-209.

Duke-Elder, S. System of Ophthalmology. Vol. I. The eye in evolution pp. xvi-843 illustr.

Dumbleton, L. J. The occurrence of an argasid tick in New Zealand. N.Z. J. Sci. 1 : 570-578 figs. 1-3.

Dumortier, B. see Vachon, M. (9).

Durkić, J. [An occurrence of *Tetranychus atlanticus*, a pest of agricultural crops in the Vojvodina in 1956.] Plant Prot. Belgrade No. 38 1956 (1957) : 67-70. [French summary.]

Dyal, S. A new genus of the viders of the family Sparassidae. Res. Bull. Panjab Univ. No. 134 1957 : 561-566 1 pl. figs. 1-2.

Dyatlov, A. G., see Pervomaisky, G. S. & (1).

Dyk, V. Die gemeine Zecke in der Tatrahochgebirgsslagen. Acta Univ. Agric. Silv., Brno (B) 5 (21) 1957 : 265-271. [In Czech, German summary.] [Not seen.]

Dyk, V. (1). Der Fund der Weibchen der gemeinen Zecke am Rehbock in dem Böhmerwaldmoore. Acta Univ. Agric. Silv., Brno (B) 5 (21) 1957 : 335-339 figs. 1-2. [In Czech, German summary.] [Not seen.]

Dyk, V. (2). Fragment-Lokalitäten der Zecke in der Nähe von Ansiedlungen mit Hundehaltung. Bull. Brno Vysoka Sk. Zemedel. a Lesn. Fakul. Sborn. Rada 1957 (5) : 53-57. [Not seen.]

Eason, E. H. Notes on the Diplopoda (Millipedes) of Warwickshire and Worcestershire. Ann. Mag. nat. Hist. (13) 1 : 90-96.

Eastop, V. F., see Macfarlane, D.

Edgar, E. C. Developments in the control of red spider mites. Outlook on Agriculture 1 1956 : 16-19.

Edwards, A. R. Cleavage in *Cheyletus eruditus* (Acarina). Nature, Lond. 181 : 1409-1410.

Edwards, R. J. The spider subfamily Clubioninae of the United States, Canada and Alaska (Araneae: Clubionidae). Bull. Mus. comp. Zool. Harv. 118 : 365-436 pls. figs. 1-250.

Egleton, S. P. Tropical rat mite. Sanitarian 64 1956 : 378.

Eglitis, V. K. Plant-eating mites of Latvian SSR. Konf. po Voprosam Zashch. Rast. Sborn. Trudov. po Zashch. Rast. 1956 : 43-50. [Russian.] [Not seen.]

Eguchi, H., see Hayashi, N.

Ehara, S. Three predatory mites of the genus *Typhlodromus* from Japan (Phytoseiidae). Annot. zool. jap. 31 : 53-57 figs. 1-9.

Ehara, S. (1). On three spider mites of *Schizotetranychus* from Japan. J. Fac. Sci. Hokkaido Univ. (Zool.) (6) 13 1957 (1958) : 15-23 figs. 1-35.

Eichler, W. Ektoparasiten von Zoo-Tieren. V. *Halarachne taita* nov. spec., eine neue Milbe vom See-Elefanten. Zool. Gart., Lpz. 24 : 54-60 figs. 1-14.

Eisenack, A. Beobachtungen an Fragmenten von Eurypteriden-Panzern. Neues Jb. Geol. Paläont. 104 1956 : 119-128 pls. 8-10 fig.

Einminavičiute, I. The fauna of the Oribatidae in the Lithuanian SSR. Acta parasit. Lithuanica 1 : 71-83. [English summary.]

[Einminavichyute, I. S.] (1). [The dynamics of Oribatidae in mixed forest and cultivated grazing land.] Trud. Akad. Nauk Lithuanian SSR. ser.B. 4 (16) : 225-231. [In Lithuanian, Russian summary.]

Eklund, C. M., Kohls, G. M. & Jellison, W. L. Isolation of Colorado tick fever virus from rodents in Colorado. Science 128 : 413.

El-Kifl, A. H. Notes on the magnitude and vertical distribution of Myriapoda in cultivated soil. Bull. Soc. ent. Egypte 42 : 263-269 figs. 1-3.

El-Kifl, A. H. (1). A brief note on the arthropod fauna of a bird nest. Bull. Soc. ent. Egypte 42 : 273.

El-Kifl, A. H. (2). Soil arthropod fauna of an onion field, with an evaluation to extraction methods used. Bull. Soc. ent. Egypte 42 : 399-409 figs. 1-3.

El-Kifl, A. H. (3). The arthropod fauna of the Egyptian farmyard manure. Bull. Soc. ent. Egypte 42 : 477-500 figs. 1-12.

El-Ziady, S. The behaviour of *Ornithodoros erraticus* (Lucas, 1849) small form (Ixodoidea, Argasidae), towards certain environmental factors. Ann. ent. Soc. Amer. 51 : 317-336 pls. 1-11 fig. 2.

[Emelyanova, N. D.] [On the family Ixodidae of the Mongolian Republic.] Ninth Conf. parasit. Probl. 1957 : 88-89. [In Russian.]

[Emelyanova, N. D. & Pauller, O.F. (1).] [New data on Ixodids of Western Transbaikal.] Ninth Conf. parasit. Probl. 1957 : 90. [In Russian.]

Emelyanova, N. D., see Zhovtii, I. F.

Engelhardt, W. Limnologische Untersuchungen im Walchensee in den Jahren 1950–58. II. Untersuchungen über die Litoralfauna des Walchensees Oberbayern und ihre Beeinflussung durch den Staubetrieb. Arch. Fisch. Wiss. 9 : 203–222 figs. 1–7.

Engelhardt, W. (1). Untersuchungen über Spinnen aus Fichtenwipfeln. Opus. Zool. Nr. 17 : 1–9.

English, L. L. & Snetsinger, R. The biology and control of *Eotetranychus multidigituli* (Ewing) a spider mite of honey locust. J. econ. Ent. 50 (1957) 1958 : 784–788 figs. 1–2.

Enigk, K. Zur Biologie und Bekämpfung der Räudemilben der Haustiere. Hemera Zoa 63 1956 : 79–84.

Enigk, K. (1). Zum Vorkommen der Zecke *Dermacentor pictus* (Herm. 1804) in Deutschland. Z. Parasit. 18 : 419–422.

Enns, W. R. A new species of rake-legged mite from Missouri (Acarina, Caeculidae). J. Kansas ent. Soc. 31 : 107–113 pls. 1–2.

Esaki, T., see China, W. E.

Escorel Borges, H., see Costa, A. S.

Essig, E. O. Insects and mites of Western North America. New York (Macmillan Co.) : xiv + 1050 766 figs. [Arachnida 4–50 figs. 2–32.]

Evans, G. O. Some mesostigmatid mites from a nest of social spiders in Uganda. Ann. Mag. nat. Hist. (13) 1 : 580–590 figs. 1–20.

Evans, G. O. (1). A new mite of the genus *Phytoseiulus* Evans (Acarina: Phytoseiidae) from Southern Rhodesia. J. ent. Soc. S. Afr. 21 : 306–308 figs. 1–4.

Evans, G. O. (2). A revision of the British Aceosejinae (Acarina: Mesostigmata). Proc. zool. Soc. Lond. 131 : 177–229 figs. 1–73.

Evans, G. O. & Fletcher, D. S. (3). Introduction with list of localities. Ruwenzori Expedition 1952. Brit. Mus. (Nat. Hist.) 1 : i–vii pl. map.

Evans, G. O., & Hyatt, K. H. (4). The genera *Podocinum* Berl. and *Podocinella* gen. nov. (Acarina: Mesostigmata). Ann. Mag. nat. Hist., Ser. 12 10 1957 (1958) : 913–932 figs. 1–55.

[**Evseeva, V. E.**] [Systematics and development of the genus *Pergamasus* (Parasitidae, Parasitiformes).] Ninth Conf. parasit. Probl. 1957 : 88. [In Russian.]

Ewer, D. W., see Alexander, A. J. (2).

Eyndhoven, G. L. van. New ideas on the genus *Bryobia* (Acari, Tetranychidae). Notulae ad Tetranychidas. Proc. 10th Int. Cong. Ent. Montreal 1 1956 (1958) : 927–929.

Fage, L. Les Pycnogonides (excl. le genre *Nymphon*). Galathea Rep. 2 1956 : 167–182 figs. 1–22.

Fain, A. Un nouveau spélognathe (Acarina-Ereynetidae) parasitant les fosses nasales du murin (*Myotis myotis*) (Borkh.) en Belgique: *Speleognathopsis bastini* n. sp. Bull. Ann. Soc. ent. Belg. 94 : 342–345 figs. 1–4.

Fain, A. (1). Acariens parasites nasicoles chez les oiseaux du Zoo d'Anvers. Description de trois espèces nouvelles. Bull. Soc. Zool. Anvers No. 9 : 1–13 figs. 3–18.

Fain, A. (2). Acariens parasites des fosses nasales d'oiseaux. Explor. Parc nat. Albert (2) No. 6 : 1–15 figs. 1–10.

Fain, A. (3). Un nouvel acarien trombidiforme parasitant les fosses nasales d'un serpent au Ruanda-Urundi. Rev. Zool. Bot. afr. 57 : 177–183 figs. 1–6.

Fain, A. (4). Notes sur les acariens de la sous-famille Speleognathinae Fain 1957 (Trombidiformes—Ereynetidae Oudemans). Essai de groupement sous-générique. Rev. Zool. Bot. afr. 58 : 175–183 figs. 1–4.

Fain, A. (5). Les acariens psoriques parasites des Chauve-souris. I. Revision du genre *Nycteridocoptes* Oudemans, avec description de trois espèces nouvelles chez les Roussettes Africaines. Rev. Zool. Bot. afr. 58 : 232–248 figs. 1–10.

Fain, A. (6). Deux nouveaux Rhinonyssides des genres *Ruandayssus* et *Ptilonyssus* (Acarina: Mesostigmata). Rev. Zool. Bot. afr. 58 : 291–296 figs. 1–12.

Fain, A. (7). Un nouveau parasite de l'Orang-Outan *Rhinophaga pongoicola* n.sp. (Acarina-Halarachnidea). Rev. Zool. Bot. afr. 58 : 323–327 figs. 1–6.

Fain, A. & Carpentier, J. (8). Acariase pulmonaire mortelle chez des canaris du zoo. Bull. Soc. Zool. Anvers No. 9 : 21-24 fig. 2.

Fain, A. Mignolet, G. & Bereznay, Y. (9). L'acariase des voies respiratoires chez les singes du Zoo d'Anvers. Bull. Soc. Zool. Anvers No. 9 : 16-19 fig. 1.

Fain, A., see Vercammen-Grandjean, P. H.

Fasciolo, J. C., see Calvo, R. & (1).

Fasicolo, J. C., see Suarez, J. R. E.

Fauran, P., see Floch, H. & (1).

Fedorov, J. V., see Popov, V. M.

Feider, Z. Quelques larves d'acariens nouvelles pour la science. An. Sti. Univ. "A.I. Cuza" Iași (2) 4 : 303-310 pls. 1-9. [French, etc. summaries.]

Feider, Z. (1). Une nouvelle larve de la sous-famille des Johnstonianinae (Acarina). Comun. Acad. R. P. Romine 8 : 499-506 figs. 1-11.

Feider, Z. (2). Sur une larve du genre *Trombicula* (Acari) parasite sur les lézards de la Roumanie. Z. Parasit. 18 : 441-456 figs. 1-20.

Feider, Z., Rauchbach, G. & Mironescu, I. (3). Die Zecken der Rumänischen Volksrepublik. Čsl. Parasit. 5 : 71-87 figs. 1-13.

Feider, Z. & Suciu, I. (4). Oribatidés (Acarina), nouveau pour la faune de la République Populaire Roumaine. Comun. Acad. Republ. rom. 8 : 395-412 figs. 1-27. [French summary.]

Feldman-Muhsam, B. A note on the transmission of a *Nuttallia* of *Meriones shawi* by the tick *Rhipicephalus secundus*. J. Protozool. 5 : 225-226.

Feldman-Muhsam, B. & Kahn, J. (1). The variation in laboratory bred ticks. J. Parasit. 44 4 Sect. 2 : 23. [Abstract.]

Feldman-Muhsam, B., see Kahn, J.

[**Fen Chun-Tzi.**] [On the study of the vectors of tick recurrent fever in China.] C.R. Acad. Sci. URSS 121 : 766-768. [In Russian.]

Fernandez, F., see Calvo, R. & (1).

Filipponi, A. & Ilardi, A. Sulla validità di tre specie del sottogenere berlesiano *Macrocheles* (Acarina, Mesostigmata). Riv. Parassit. 19 : 117-129 fig. 1.

Filipponi, A. & Seganti, L. (1). Arrenotochia in *Macrocheles subbadius* (Acarina, Mesostigmata). R.C. Ist. sup. Sanit. 20 1957 : 1037-1044.

Filippova, N. A contribution to the morphology and systematics of the immature phases of the ticks (Ixodinae). Mag. Parasit. Leningrad 18 : 10-77 figs. 1-35. [In Russian, English summary.]

Filippova, N. (1). On the fauna of the ticks (Parasitiformes, Ixodidae) infesting terrestrial vertebrates in the vicinity of the Lake Issyk-Kul. Mag. Parasit. Leningrad 18 : 110-119. (In Russian, English summary.)

Filippova, N., see Skrinnik, A. & (1).

Fitch, H. S. Natural history of the six-lined racerunner (*Cnemidophorus sexlineatus*). Univ. Kansas Publ. Mus. Nat. Hist. 11 : 1-62 figs.

Fize, A. Description d'une espèce nouvelle de tardigrade *Battillipes caronensis* n.sp. Bull. Soc. zool. Fr. 82 : 430-433 fig.

Fleschner, C. A. Natural enemies of tetranychid mites on citrus and avocado in Southern California. Proc. 10th. Int. Cong. Ent. Montreal 4 1956 (1958) 627-631.

Fleschner, C. A. (1). Field approach to population studies of tetranychid mites on citrus and avocado in California. Proc. 10th Int. Cong. Ent. Montreal 2 1956 (1958) : 669-674.

Fletcher, D. S., see Evans, G. O. (3).

Floch, H. & Fauran, P. Les Trombiculides de la Guyane française. Arch. Inst. Pasteur Guyane No. 438 1957 (1958) : 1-23 figs. 1-10.

Floch, H. & Fauran, P. (1). Ixodes de la Guyane et des Antilles françaises. Arch. Inst. Pasteur Guyane No. 446 : 1-94 figs. 1-13.

Fluitter, H. J. de, see Vrie, M. van de (2).

Flynn, J. E., see Atkins, J. A.

[**Folkmanova, B.**] [Über neue Formen der Chilopoda aus UdSSR.] Zool. Zh. 37 : 183-192 figs. 1-9. [In Russian, German summary.]

Fonseca, F. da. Notas de Acarologia. XL. Acaros do Estado do Maranhão. Pap. Rep. Zool. Sec. Agric. S. Paulo 13 : 133-140 figs. 1-2.

Forsslund, K.-H. Notizen über Ori-beite (Acarini). II. Ent. Tidskr. **79** : 75-86 figs. 1-17.

Forster, R. R. Spiders of the family Symphytognathidae from North and South America. Amer. Mus. Novit. No. 1885 : 1-14 figs. 1-27.

Fox, I. *Ornithonyssus bursa* (Berlese) attacking man in Puerto Rico. J. Econ. Ent. **50** (1957) 1958 : 838.

Fox, I., Grace, W. J. & Debbink, C. E. (1). A case of arachnidism due to the bite of the black widow spider (*Latrodectus mactans*) from Vieques, Puerto Rico. Bol. Asoc. Med. Puerto Rico **48** 1956 : 440-447 figs. 1-4.

Franz, H. Zur Kenntnis der afrikanischen Arten der Gattung *Allocaeculus* (Acarini, Trombidiformes). Verh. zool.-bot. Ges. Wien **97** 1957 : 5-13 figs. 1-3.

Freytag, G., see Precht, H.

Fritsch, W. Die Milbengattung *Syringophilus* Heller 1880 (Subordo Trombidiformes, Fam. Myobiidae Megnin 1877). Zool. Jb. Syst. **86** : 227-244 figs. 1-10.

Fujita, H., Suzuki, T. & Horikawa, T. Epidemiological studies on 20 days fever in Mie-Prefecture. 2. On trombiculid mites in Mie-prefecture. Mie med. J. **5** 1956 : 159-169. [Not seen.]

Fukuda, S. & Asanuma, K. (3).

Furman, D. P. & Reeves, W. C. Toxic bite of a spider, *Cheiracanthium inclusum* Hentz. Calif. Med. **87** 1957 : 114. [Not seen.]

Furman, D. P. & Tipton, V. J. (1). *Tur uniscutatus* (Turk) 1946 (Acarina: Laelaptidae) from neotropical rodents. J. Parasit. **44** : 541-547 pls. 1-2.

Gaafar, S. M. & McDonald, C. N. A preliminary report on the treatment of demodectic mange in dogs. Southwestern Vet., **10** 1957 : 309-310. [Not seen.]

[**Gadalin, Y. I., Gershkovich, N. L. Gorchakovskaya, N. N. & Levit, A. B.**] Characteristics of the natural foci of the tick encephalitis in the zone of Knibishev GES and some results obtained in four years of control of *Ixodes persulcatus* P. Sch.] Ninth Conf. parasit. Probl. 1957 : 45-46. [In Russian.]

Galiano, M. E. Una nueva especie del género *Thiodina* Simon, 1900 (Araneae, Salticidae). Rev. Soc. ent. Argent. **19** (1956) 1957 : 57-61 figs. A-C.

Galiano, M. E. (1). Nota sobre une especie del género *Thiodina* Simon, 1900 (Araneae, Salticidae). Rev. Soc. ent. Argent. **20** (1957) 1958 : 16.

Galiano, M. E. (2). Novedades sobre los géneros *Scopocira* Simon y *Gypogyna* Simon (Araneae, Salticidae). Rev. Soc. ent. Argent. **20** (1957) 1958 : 21-32 figs. 1-3.

Galichet, P. F. Cinq années d'expérimentation en vue du contrôle des Diplopodes dans le culture cotonnière. Cot. et Fibr. trop. **12** 1957 : 266-282. [Not seen.]

Galichet, P. F. (2). Les principaux parasites du cotonnier au Tchad. Cot. et Fibr. trop. **12** 1957 : 357-406. [Not seen.]

[**Gamaleev, A. D. & Khonyak, I. G.**] [The zoological and parasitological characteristics of the focus of infection of the mite-encephalitis in Khabarov Land.] Ninth Conf. parasit. Probl. 1957 : 51-52. [In Russian.]

Gamaleev, A. D., see Maslov, A. V.

[**Ganiev, I. M.**] [Material to the study of *Rhipicephalus turanicus* B. Pom. in Daghestan neighbourhood.] Ninth Conf. parasit. Probl. 1957 : 52-53. [In Russian.]

Ganiev, I. M. (1). [Biology of tick *Hyalomma plumbeum* Panzer 1795 under conditions of Southern Daghestan.] Trud. Inst. Zhivotnovodstva Daghestansk. Fil. Akad. Nauk SSSR 1956 : 27-33. [In Russian.] [Not seen.]

Garcia, E. M., see Schenone, H.

Garman, P. New species belonging to the genera *Amblyseius* and *Amblyseiopsis* with keys to *Amblyseius*, *Amblyseiopsis* and *Phytoseiulus*. Ann. ent. Soc. Amer. **51** : 69-79 figs. 1-17.

Gasser, R. Il problema degli Acari in frutticoltura, viticoltura e floricoltura. Boll. Zool. Agr. Bachia. **22** 1956 [1957] : 81-142 pls. 1-5.

Gaud, J. Acariens plumicoles (Analgesoidea) parasites des oiseaux du Maroc. I. Proctophyllodidae. Bull. Soc. Sci. nat. Maroc. **37** (1957) 1958 : 105-136 figs. 1-13.

Gaud, J. (1). Acariens plumicoles (Analgesoidea) parasites des oiseaux du Maroc. Bull. Soc. Sci. nat. Maroc **38** : 27-49 figs. 1-9.

Gaud, J. & Mouchet, J. (2). Acariens plumicoles (Analgesoidea) des oiseaux du Cameroun. 1. Proctophyllodidae (suite). Ann. Parasit. **33** : 36-68 figs. 31-48.

Geerts, J., Meyus, H., Bervoets, W. & Cauberghe, H. Lutte contre l'*Ornithodoros moubata* dans deux territoires du Ruanda-Urundi. Riv. Parassit. **19** : 209-214.

Gennari, G. Sindrome addominale da morso di aracnide simulante l'ulcera gastrica o duodenale perforata. Poli-clinico **59** 1952 : 1-9. [Not seen.]

Georgala, M. B. A contribution to the biology of the mite, *Bryobia praetiosa* Koch. (fam. Tetranychidae). Sci. Bull. No. 367. S. Afr. Dept. Agric. : 1-41 figs. 1-11.

Gerasimova, E. N., see Mishin, A. V. (2).

Germaine, L. A. P. La faune des lacs, des étangs et des marais de l'Europe occidentale. 2me édition revisée . . . par E. Séguier. Encyclopédie pratique du naturaliste, Tome 20. Paris (Editions Paul Lechevalier) 1957 pp. x, 549 : 32 col. pls. text illust. [pp. 168-186].

Gerschkovich, N. L., see Gadalin, Y. I.

Gertsch, W. J. Results of the Puritan-American Museum Expedition to Western Mexico. 4. The scorpions. Amer. Mus. Novit. No. 1903 : 1-20.

Gertsch, W. J. (1). The spider family Duguetidae. Amer. Mus. Novit. No. 1904 : 1-24 figs. 1-19.

Gertsch, W. T. (2). The spider genus *Loxosceles* in North America, Central America, and the West Indies. Amer. Mus. Novit. No. 1907 : 1-46 figs. 1-97.

Gertsch, W. J. (3). The spider family Hypochilidae. Amer. Mus. Novit. No. 1912 : 1-28 figs. 1-50.

Gertsch, W. J. (4). The spider family Plectreuridae. Amer. Mus. Nov. No. 1920 : 1-53 figs. 1-91.

Gertsch, W. J., see Chamberlin, R. V. (5).

Ghilarov, M. S. Evolution of insemination character in terrestrial Arthropods. Zool. Zh. **37** : 707-735 figs. 1-15. [In Russian, English summary.]

Ghilarov, M. S., see Arnoldi, K. V.

Gilmer, R. M. & McEwen, F. L. Chlorotic fleck, an eriophyid mite injury of myrobalan plum. J. econ. Econ. **51** : 335-337 figs. 1-2.

[**Gladkikh, S. G., Shvetzova, K. D. & Vinogradova, E. V.**] [Study on new substances keeping the ticks, *Ixodes persulcatus* away from fields.] Ninth Conf. parasit. Probl. 1957 : 58-59. [In Russian.]

Glashchinskaya-Babenko, L. V. [*Ixodes lividus* Koch, as a representative of burrowing ticks—Ixodidae.] Mater. Poznan. Faun. i Flora SSSR. Otdel. Zool. **34** (49) 1956 : 21-105. [Not seen.]

[**Goncharova, A. A. & Buyakova, T. G.**] [To the biology of *Haemogamasus mandshuricus* in Transbaikal.] Ninth Conf. parasit. Probl. 1957 : 65-66. [In Russian.]

Goodnight, C. J. Two representatives of a tropical suborder of Opilionids (Arachnida) found in Indiana. Proc. Indiana Acad. Sci. **67** : 322-323.

Goodnight, C. J., see Parthasarathy, M. D.

[**Gorchakovskaya, N. N.**] [On the problem of the recurrence of numbers of ticks, *Ixodes persulcatus* in localities treated with acaricides, and the possibility of using aircraft for spraying.] Ninth Conf. parasit. Probl. 1957 : 68-69. [In Russian.]

Gorchakovskaya, N. N., see Gadalin, Y. I.

Gorvett, H. Animal life on wave-beaten rocks. Nature **182** : 1652-1653.

Goulliart, M. Remarques & notes d'élevage concernant quelques myriapodes. Bull. Soc. ent. Nord Fr. No. 96 : 1-5.

Grabda, E., Kozar, Z. & Slusarski, W. Parasitology and parasitologists in Poland. Warszawa (Polish Parasit. Soc.) pp. 118.

Grace, W. J., see Fox, I. (1).

Grandjean, F. Sur le comportement et la notation des poils accessoires postérieurs aux tarses des Nothroïdes et d'autres Acariens. Arch. Zool. exp. gén. **96** : 277-308 figs. 1-6.

Grandjean, F. (1). Observations sur les Palaeacaroides (5e série). I. *Archeonothrus natalensis* Träg. 1906. II. Autres Palaeacaroides. III. Différences entre les genres *Archeonothrus*, *Stomacarus* et *Andacarus*. Bull. Mus. Hist. nat. Paris (2) **30** : 76-83.

Grandjean, F. (2). Observations sur les Oribates (38e Série). Bull. Mus. Hist. nat. Paris (2) **30** : 167-174 figs. 1-3.

Grandjean, F. (3). Scheloribatidae et Oribatulidae (Acariens, Oribates). Bull. Mus. Hist. nat. Paris (2) **30** : 352-359 figs. 1-3.

Grandjean, F. (4). Au sujet du naso et de son oeil infère chez les Oribates et les Endeostigmata (Acariens). Bull. Mus. Hist. nat. Paris (2) **30** : 427-435 figs. 1-2.

Grandjean, F. (5). *Sellnickia caudata* (Mich. 1908). Bull. Soc. zool. Fr. **83** : 30-44 figs. 1-4.

Grandjean, F. (6). *Perlohmannia dissimilis* (Hewitt) (Acarien, Oribata). Mém. Mus. Hist. nat. Paris N.S. **16A** : 57-119 figs. 1-16.

Grandjean, F. (7). *Charassobates cavernosus* Grandj. 1929 (Acarien, Oribata). Mém. Mus. Hist. nat. Paris N.S. **16A** : 121-140 figs. 1-5.

Grasso, A. I. Sobre dos ácaros de intereses agrícola nuevos para la Argentina. *Penthaleus major* (Dugés) y *Petrobia latens* (Müller). An. Soc. cient. argent. **166** : 41-44 fig. 1.

Gratama, S. & Thiel, P. H. van. Ocular localization of *Armillifer armillatus*. Docum. Med. geogr. trop. **9** 1957 : 374-376 fig. 1.

[**Grebenuk, R. V.**] [Vertical distribution of ixodids in domestic and wild animals of the Southern Kirgizia.] Ninth Conf. parasit. Probl. 1957 : 69-70. [In Russian.]

[**Grebenuk, R. V. (1).** [Vertical distribution of Ixodidae in domestic and wild animals of Southern Kirghiz.] Trud. Inst. Zool. Parasit. Frunze **6** 1957 : 201-213. [In Russian.]

Grebenuk, R. V., see Dubinin, V. B. (3).

Greenwood, D., see Brookes, R. F. & (1).

Gregson, J. D. Host susceptibility to paralysis by the tick *Dermacentor andersoni* Stiles (Acarina: Ixodidae). Canad. Ent. **90** : 421-424.

Gregson, J. D. (1). Tick paralysis in cattle in British Columbia in 1957. Proc. ent. Soc. B.C. **55** : 6-7 fig.

Gregson, J. D. (2). The feeding mechanism of *Dermacentor andersoni* Stiles. Proc. 10th. Int. Cong. Ent. Montreal **3** 1956 (1958) : 837. [Abstract.]

Grébillat, S. Kystes pulmonaires à acariens. Bull. Soc. Path. exot. **51** : 536-539.

Grébillat, S. (1). Deux acariens parasites de *Gallus domesticus* Lin. à Madagascar (*Bdellonyssus bursa* Berlese, 1888 et *Tyroglyphus* sp.). Rev. Élev. N.S. **9** 1956 : 359-365 figs. 1-4.

[**Grinbergs, A. R.**] [Ectoparasites of *Clethrionomys glareolus* in Latvian Republic, and the seasonal variations of their specific and numerical occurrence.] Ninth Conf. parasit. Probl. 1957 : 71. [In Russian.]

Groschaft, J. Zur Kenntnis der Milben der Meerschweinschen. Česk. parazit. **4** 1957 : 137-143 figs. 1-5. [German summary.]

Grulich, I., Kux, Z. & Zapletal, M. Bedeutung der Reptilien als Wirte der Entwicklungsstadien von Ixodidae in den Bedingungen der Tschechoslowakei. Zool. Listy **20** 1957 : 315-328 pls. 1-2.

Grzywinski, L. Mass infestation of *Bdellonyssus bacoti* on man. Wiad. Parazytol. **2** 1956 : 231-233. [English summary.]

Gulička, J. Qualitativ-quantitative Analyse der Bodenfauna von Čierny les (Grosse Schütt-Insel). (Myriapodes, Isopoda, Opiliones). Acta Fac. Rer. nat. Univ. Comen. Zool. **2** 1957 : 119-139.

Gupta, B. L., see Sharma, G. P.

Guthrie, M. J. & Anderson, J. M. General Zoology (J. Wiley & Sons, Inc.). New York 1957 : i-xv 1-708 illustr.

Guyton, F. E., see Hays, K. L.

Haakh, U. Ektoparasitenfreie Laboratoriumsmäuse. Die *Myobia*-Räude der weissen Mäuse und ihre Bekämpfung. Z. Tropenmed. u. Parasit. **9** : 75-87 figs. 1-10.

Hadži, J. Fortschritte in der Erforschung der Höhlenfauna des Dinari-schen Karstes. Verh. dtsch. zool. ges. 1957 [1958] : 470-477.

Halašková, V. *Gamasellus silvestris* n. sp., eine neue Milbenart aus der Tschechoslowakei (Acari). Mém. Soc. zool. tchécosl. 22 : 347-352 pls. 1-3.

Halkka, R. Life history of *Schizophyllum sabulosum* (L.) (Diplopoda, Julidae). Ann. Soc. zool.-bot. fenn. Vanamo 19 : 1-72 figs. 1-73.

Hall, C. C. jr. A new eriophyid mite from Kansas. J. Kansas ent. Soc. 31 : 233-235 figs. 1-10.

Hallander, H. A Swedish representative of the Mygalomorphae, *Atypus affinis* (Eichw.). Ent. Tidskr. 79 : 72-74 figs. 1-2.

Hallander, H. (1). En skånsk fågel-spindel, *Atypus affinis* (Eichw.). Fauna och Flora 53 : 72-76 figs. 1-5.

Hammer, M. Investigations on the oribatid fauna of the Andes Mountains. I. The Argentine and Bolivia. Biol. Skr. Dansk. Vid. Selsk. 10 : 1-129 pls. 1-34.

Haneveld, G. T. Eye lesions caused by the exudate of tropical millipedes. I. Report on a case. Trop. & geogr. Med. 10 : 165-167.

Haramoto, F. H. & Boyle, W. W. Control of the cyclamen mite on *Jasminum sambac* (L.) Ait. in Hawaii. J. econ. Ent. 51 : 431-433.

Harbour, H. E. The control of external parasites. Vet. Rec., Lond. 69 1957 : 906-910.

Hart, C. B. & Malone, J. C. The occurrence of the rabbit fur mite, *Cheyletiella parasitivorax* (Megnin, 1878), on the dog. Vet. Rec., Lond. 70 : 991-993 figs. 1-2.

Hartline, H. K. & Ratcliff, F. Spatial summation of inhibitory influences in the eye of *Limulus*, and the mutual interaction of receptor units. J. gen. Physiol. 41 : 1049-1066 figs. 1-4.

Hartline, H. K., see Ratcliff, F.

Haspeslagh, G. Bijdrage tot de Kennis der tardigraden-fauna in België. Natuurwet. Tijdschr. 40 : 200-211 figs. [Not seen]

Haupt, H. Eine spinnenartige Arthropode aus dem Rotliegenden. *Rhabdotarachnoidea simoni* n. gen. n. sp. Jb. halleisch. mitteldtsch. Erdegesch. 2 1957 : 246-247 fig.

Hayashi, N., Oshima, F., Eguchi, H. & Hozumi, K. (1). [On the relation between the tsutsugamushi and birds.] Byōrigaku Kiyō 1 1924 : 461-494; 2 1925 : 1079-1092. [In Japanese.]

Hayashi, S., see Sasa, M.

Hayashi, T. On the gall of *Chara* and its protoplasmic abnormalities caused by oribatid mite. J. Jap. Bot. 32 1957 : 82-84 figs., 1-3. [In Japanese, English summary.]

Hays, K. L. & Guyton, F. E. Parasitic mites (Acarina: Mesostigmata) from Alabama mammals. J. econ. Ent. 51 : 259-260.

Heddergott, H. Lebensweise und Bekämpfung der Spinnmilben an Obstbäumen. Gesunde Pflanzen 9 1957 : 152-156. [Not seen.]

Hemming, F. Official list of works approved as available for Zoological Nomenclature. First instalment: Names 1-38. London : x + 12 pp.

Hemming, F. (1). Official list of family-group names in Zoology. First instalment: Names 1-236. London : xviii + 38 pp.

Hemming, F. (2). Official list of generic names in Zoology. First instalment: Names 1-1274. London : xxxvi + 200.

Hemming, F. (3). Official list of specific names in zoology. First instalment: Names 1-1525. London : xvi + 206 pp.

Hemming, F. (4). Official index of rejected and invalid works in Zoological Nomenclature. First instalment: Names 1-58. London : x + 14 pp.

Hemming, F. (5). Official index of rejected and invalid family-group names in Zoology. First instalment: Names 1-273. London : xii + 38 pp.

Hemming, F. (6). Official index of rejected and invalid generic names in Zoology. First instalment: Names 1-1169. London : xii + 132 pp.

Hemming, F. (7). Official index of rejected and invalid specific names in zoology. First instalment: Names 1-527. London : xii + 73 pp.

Herbert, H. J. A new species of *Typhlodromus* Scheuten, 1857 (Acarina: Phytoseiidae), with notes on life-histories and food habits of *Typhlodromus* sp. n. and *T. tiliae* Oudms. Canad. Ent. **90** : 429-433 figs. 1-4.

Herbert, H. J., see Lord, F. T.

Herne, D. C., see Putman, W. L. (1).

Hesterman, E. R., see Myktytowycz, R. (1).

Hicks, E. A. A new genus and species of diplogyniid from Nicaragua (order Acarina, family Diplogyniidae). Iowa St. Coll. J. Sci. **33** : 103-110 pls 1-11.

Higgins, H. G. & Mulaik, S. A new Korean mite (Acarina, Caeulidae). Proc. ent. Soc. Wash. **60** : 17-18 figs. 1-4.

Higgins, H. G. & Mulaik, S. B. (1). Notes on *Allodamaeus ewingi* Banks. (Acarina: Oribatei: Belbidae). Proc. ent. Soc. Wash. **60** : 131-133 figs. 1-4.

Higgins, H. G. & Woolley, T. A. (2). A redescription of *Hafenferrefia nitidula* (Banks) and notes on the distribution of other species in the family Tenuialidae (Acarina: Oribatei). J. N.Y. ent. Soc. **65** 1957 (1958) : 213-218.

Higgins, H. G., see Woolley, T. A. (6).

Hiemelick, E. B. & Curl, E. A. Transmission of *Ceratocystis fagacearum* by insects and mites. Plant Dis. Rept. **42** : 538-545 figs. A-G.

Hiregaudar, L. S. & Bal, D. V. Some ectoparasites of bats from India. Agra Univ. J. Res. (Sci.) **5** 1956 : 1-134 figs. 1-161.

Hiregaudar, L. S., see Rao, S. R.

Hirschmann, W. Chitinornamente am Milbenrücken. Mikrokosmos **47** : 182-186 figs. 1-7.

Hodgson, E. S. Electrophysiological studies of arthropod chemo-reception. III. Chemoreceptors of terrestrial and fresh-water arthropods. Biol. Bull. Woods Hole **115** : 114-125 fig. 1.

Hoek, J. O. O. & Kok, J. Eye lesions caused by the exudate of tropical millipedes. II. Composition of the exudate. Trop. & geogr. Med. **10** : 168-170.

Hoff, C. C. List of the Pseudoscorpions of North America north of Mexico. Amer. Mus. Novit. No. 1875 : 1-50.

Hoff, C. C. (1). *Tejachernes* (Arachnida-Chelonethida, Chernetidae-Chernetinae), a new genus of pseudoscorpion based on *Dinocheirus stercoreus*. Southwestern Nat. **2** 1957 : 83-88 figs.

Hoff, C. C. & Parrack, D. (2). Results of the Archbold Expeditions. No. 77—Two species of *Megachernes* (Pseudoscorpionidae, Chernetidae). Amer. Mus. Novit. No. 1881 : 1-9.

Hoffman, R. L. Appalachian Cambalidae: Taxonomy and distribution (Diplopoda: Spirostreptidae). J. Wash. Acad. Sci. **48** : 90-94 fig. 1.

Hoffman, R. L. (1). A new milliped of the genus *Sigmoria* from Western North Carolina. Proc. ent. Soc. Wash. **60** : 281-285 figs. 1-4.

Hoffman, R. L. (2). Studies on spirostreptoid millipedes. IV. The genus *Anethoporus* Chamberlin. Lloydia **20** : 268-274 figs. 1-5.

Hoffman, R. L. (3). New genera and species of cavernicolous diplopods from Alabama. Mus. Pap. geol. Surv. Alabama No. 35 1956 : 1-11 figs. 1-11.

Hoffman, R. L. (4). On the identity of *Pseudotremia cavernarum* Cope, a poorly known American chordeumoid diplopod. Proc. biol. Soc. Wash. **71** : 113-117 figs. 1-2.

Hoffman, R. L. (5). Revision of the milliped genus *Pachydesmus* (Polydesmida: Xystodesmidae). Proc. U.S. nat. Mus. **108** : 181-218 figs. 1-12.

Hoffman, R. L. (6). The systematic status of *Styloidesmus* Cook, an endemic West African milliped genus. Rev. Zool. Bot. afr. **57** : 184-192 figs. 1-8

Hoffman, R. L., see Chamberlin, R. V. (6).

Hoffmann, A. Una especie nueva de *Antricola* encontrada en Mexico (Acar, Argas.). An. Esc. nac. Cienc. biol. **9** : 97-102 pls. 3-5.

Hoffmann, J. Les diplopodes du Grand-Duché de Luxembourg. Arch. Inst. Grand-Duc. Luxemb. Sect. Sci. N.S. **25** : 7-8.

Holloway, B. A. New locality records for *Propolyxenus forsteri* Condé (Diplopoda, Polyxenidae). N.Z. Ent. **1** 1954 : 12-13.

Holm, A. Spiders (Araneae) from Greenland. Ark. Zool. **11** : 525-534 figs. 1-10.

Hoogstraal, H. Bat ticks of the genus *Argas* (Ixodoidea, Argasidae). 3. The subgenus *Carios*, a description of *A. (C.) vespertilionis* (Latreille, 1802), and variation within an Egyptian population. Ann. ent. Soc. Amer. **51** : 19-26 figs. 1-22.

Hoogstraal, H. (1). Notes on African *Haemaphysalis* ticks. IV. Description of Egyptian populations of the yellow dog-tick, *H. leachii leachii* (Audouin, 1827) (Ixodoidea, Ixodidae). J. Parasit. **44** : 548-558 figs. 1-27.

Hoogstraal, H. & Kaiser, M. N. (2). Observations on Egyptian *Hyalomma* ticks (Ixodoidea, Ixodidae). 1. Parasitism of lizards by nymphs. Ann. ent. Soc. Amer. **51** : 7-12 figs. 1-5.

Hoogstraal, H. & Kaiser, M. N. (3). Observations on Egyptian *Hyalomma* ticks (Ixodoidea, Ixodidae). 2. Parasitism of migrating birds by immature *H. rufipes* Koch. Ann. ent. Soc. Amer. **51** : 12-16.

Hoogstraal, H. & Kaiser, M. N. (4). Observations on Egyptian *Hyalomma* ticks (Ixodoidea, Ixodidae). 3. Infestation of greater gerbils, especially by immature *H. impeltatum* S. & S. Ann. ent. Soc. Amer. **51** : 17-19 fig. 1.

Hoogstraal, H. & Kaiser, M. N. (5). Observations on Egyptian *Hyalomma* ticks (Ixodoidea, Ixodidae). 4. Identity, distribution, and host of *H. franchinii* Tonelli-Rondelli (new combination). Systematic status of *H. tunesiacum* Sc. & Sc. and its subspecies. Ann. ent. Soc. Amer. **51** : 397-400.

Höregott, H. Arachnologische Studien auf den Sandfluren bei Kleinsaubernitz/Oberlausitz. Nat. lusit., Bautzen No. 4 : 20-35 map.

Horikawa, T., see Fujita, H.

Hourmouziadis, A. N., see Papadakis, A. M.

Hoyle, G. Studies on neuromuscular transmission in *Limulus*. Biol. Bull., Woods Hole **115** : 209-218 figs. 1-7.

Hozumi, K., see Hayashi, N.

Hsu, P. K., Su, K.-c. & Chen, H.-t. Some methods of rearing trombiculid mites, with further observations on the development of four previously treated species. Acta zool. Sin. **10**: 103-112 figs. 1-12. [In Chinese: English summary.]

Hsu, P. K., see Chen, H. T. & (1) (2).

Huff, C. G., Nolf, L. O., Porter, R. J., Read, C. P., Richards, A. G., Riker, A. J. & Stauber, L. A. An approach toward a course in the principles of parasitism. J. Parasit. **44** : 28-45.

Huffaker, C. B. Experimental studies on predation. II. Dispersion factors and predator-prey oscillations. Hilgardia **27** : 343-383.

Hughes, A. M. A new species of *Acarus* (*A. gracilis* sp. n.) belonging to the family Tyroglyphidae Donnadieu 1868. Ann. Mag. nat. Hist. (12) **10** (1957) 1958 : 753-761 figs. 1-18.

Hughes, L. E. & Philip, C. B. Experimental tick paralysis in laboratory animals and native Montana rodents. Proc. Soc. exper. Biol. Med. **99** : 316-319.

Hughes, R. D. & Jackson, G. G. A review of the Aneotidae (Acari). Va. J. Sci. N.S. **9** : 5-198 pls. 1-71.

Hughes, T. E. The respiratory system of the mite *Cheyletus eruditus* (Schrank, 1781). Proc. zool. Soc. Lond. **130** : 231-239 figs. 1-8.

Hukusima, S. The effect of varying nitrogen levels in nutrition upon the arthropod fauna in young apple trees, with special reference to the increase of the mite and aphid populations. Bull. Fac. Agric. Hirosaki Univ. **4** : 72-79. [Not seen.]

Hull, R. W., see Camin, J. H. (2).

Humphreys, M. *Cheyletiella parasitovorax* infestation of the dog. Vet. Rec., Lond. **70** : 442 pls. 1-3.

Husseine, K. K. The effect of insecticides on outbreaks of spider mites on cotton. FAO Plant Prot. Bull. **6** no. 10 : 155-157.

Hussey, N. W. & Parr, W. J. A genetic study of the colour forms found in populations of the greenhouse red spider mite, *Tetranychus urticae* Koch. Ann. appl. Biol. **46** : 218-220 figs. 1-3.

Hutchinson, C. E. Trap-door spider secrets. Nature Mag. **50** 1957 : 542-543 figs. 2.

Hyatt, K. H., see Browning, E.

Hyatt, K. H., see Evans, G. O. (4).

Ignoffo, C. M. Evaluation of techniques for recovering ectoparasites. Proc. Iowa Acad. Sci. **65** : 540-545.

- Ihardi**, A., *see* Filippioni, A.
- Imabayashi**, S.-i., *see* Nishio, Y.
- Imamura**, T. Some water-mites (Hydrachnellae) of subterranean waters in Japan. *Arch. Hydrobiol.* **54** : 447-461 figs. 1-13.
- Imamura**, T. (1). Water-mites of Marsh Hinuma. *Bull. Fac. Lib. Arts Ibaraki Univ. Nat. Sci. No. 8* : 55-59 figs. 1-3.
- Inamdar**, N. B., & **Wagh**, U. V. Amounts of DNA in the secretory cells (silk glands) of some spiders. *Proc. Indian sci. Congr.* **44** 4 1957 [1958] : 23. [Abstract.]
- Ishigaki**, Y., *see* Kano, R.
- Ito**, T., **Obata**, Y. & **Oono**, M. Eggs of dragon-fly as new food for trombiculid mites. *Acta med. biol., Niigata* **5** 1957 : 169-199 figs. 1-6. [Not seen.]
- Izotova**, T. E. [Myriapoda of the Tartar ASSR.] in Aleinikova, M. M. & others. All-Union conference on soil zoology. Summary of papers. Moscow 46-48. [In Russian.]
- Jack**, K. M. Notes on three species of *Pterygosoma* (Acarina: Pterygosomidae) from gerrhosaurid lizards. *Parasitology* **48** : 89-95 figs. 1-3.
- Jackson**, C. G., *see* Hughes, R. D.
- Jacobs**, F. H. Some modern problems in pest control. *Sci. Progr.* **46** 181 : 30-45.
- Janakiraman**, R., *see* Subbiah, M. S.
- Janetschek**, H. Zoologische Ergebnisse einer Studienreise in die spanische Sierra Nevada (Vorläufige Mitteilung). *Publ. Inst. Biol. apl. Barcelona* **26** 1957 : 135-153.
- Jaycox**, E. R. Acarine disease of honey bees. *Bull. Calif. Dep. Agric.* **47** : 215-221 6 figs.
- Jeekel**, C. A. W., **Tuzet**, O., **Manier**, J. F. & **Jolivet**, P. Myriapodes et leurs parasites. *Explor. Parc nat. Albert* (2) No. 9 : 1-32 pls. 1-4 figs. 1-4 map.
- Jelasic**, V. F., **Maretic**, Z. & **Paic**, V. Über die therapeutische Anwendung des Toxins der Giftspinne *Latrodectus tredecimguttatus* bei chronischen rheumatischen und einigen anderen Krankheiten. *Med. Klinik* **50** 1955 : 1336-1338. [Not seen.]
- Jellison**, W. L., *see* Eklund, C. M.
- Jenkins**, C. F. H. Vine leaf blister mite (Vine erinose) *Eriophyes vitis* (Pgst.). *J. Dept. Agric. W. Aust.* (3) **3** 1954 : 55-56 fig.
- Jenkins**, C. F. H. (1). The red spider, *Tetranychus telarius* (L.). *J. Dept. Agric. W. Aust.* (3) **4** 1955 : 145-150 figs. 1-3.
- Jeppson**, L. R., **Jesser**, M. J. & **Complin**, J. O. Resistance of the citrus red mite to organic phosphates in California. *J. econ. Ent.* **51** : 232-233.
- Jeppson**, L. R., **Jesser**, M. J. & **Complin**, J. O. (1). Factors affecting population of the citrus bud mite in Southern California lemon orchards and acaricide treatments for control of this eriophyid. *J. econ. Ent.* **51** : 657-662.
- Jesser**, M. J., *see* Jeppson, L. R. & (1).
- Johnson**, G. D. The garden symphytid, what it is, what it does, what to do about it. *Prof. Gard.* **9** 1957 : 251-252. [Not seen.]
- Johnson**, M. A., *see* Lavoipierre, M. M. J. (3).
- Johnson**, R. B. (1). Notes on the use of systox for purple mite control of citrus. *Proc. Fla. Hort. Soc.* **69** 1956 : 93-97.
- Johnson**, R. B., **King**, J. R. & **McBride**, J. J. Jr. (2). Zineb controls citrus rust mite. *Proc. Fla. Hort. Soc.* **70** 1957 : 38-48 figs. 1-10.
- Johnson**, R. B., *see* King, J. R.
- Johnson**, R. M., *see* Doro, D. S.
- Johnston**, A. M., *see* Thompson, M. E.
- Jolivet**, P. Sur la présence, dans le Département de Manche de *Polyxenus lagurus* Latr. (Diplopodes-Polyxénidés). *Bull. Soc. Linn. Normandie* (9) **3** 1942-1943 : 109-110 fig.
- Jolivet**, P., *see* Jeekel, C. A. W.
- Jolivet**, P., *see* Tuzet, O. (2), (3), (4).
- Jones**, F. G. W. Sugar beet pests. *Minist. Agric. Fish. Food, London. Bull. No. 162* 1957 : 1-63 pls. 1-16 figs. 1-13.
- Juberthie**, C. Révision du genre *Parasiro* (Opilions, Sironidae) et description de *Parasiro minor* n. sp. *Bull. Mus. Hist. nat. Paris* (2) **30** : 159-166 figs. 1-19.

Juberthie, C. (1). Notes sur le biotope et la répartition géographique de quelques opilions français. Bull. Soc. zool. Fr. **82** : 331–336 fig. 1.

Juberthie, C. & Juberthie-Jupeau, L. (2). Les Opiliones et Symphiles récoltés dans les grottes de l'ouest de la France. Notes biospéol. **12** 1957 : 121.

Juberthie-Jupeau, L. Contribution à l'étude des Symphytes de l'Angola et du Congo Belge. Publ. cult. Comp. Diam. Angola. No. 38 : 93–98.

Juminer, B., see Renoux, G.

Junqua, C. Observations préliminaires sur la mue et la croissance chez les solifuges. Bull. Soc. zool. Fr. **83** : 262–263 pl. 1.

[**Kadyte, B. A.**] [On the seasonal dynamics of parasitism of cattle by *Ixodes ricinus*.] Trud. Akad. Nauk Lithuanian SSR. ser. B 4 (16) : 233–235. [In Lithuanian, Russian summary.]

Kahn, J. & Feldman-Muhsam, B. A note on tick chromosomes. Bull. res. Counc. Israel **7B** : 205 fig.

Kahn, J., see Feldman-Musham, B. (1).

Kaiser, M. N., see Hoogstraal, H. (2) (3) (5).

[**Kalita, S. R. & Ovchinnikova, S. L.**] [To the knowledge of the composition of Ixodidae in the Caucasian State Game Reserve.] Ninth Conf. parasit. Probl. 1957 : 106–107. [In Russian.]

Kamo, H. On the trombiculid mites collected from birds in Kyushu. Jap. J. sanit. Zool. **5** 1954 : 52. [In Japanese.]

Kamo, H. Kawashima, K. & Nishimura, K. (1). Notes on the trombiculid mites infesting bats in Kyushu, Japan, including descriptions of two new species (Acarina: Trombiculidae). Kyushu J. Med. Sci. **8** 1957 : 209–216 figs. 1–2.

Kaneko, K., see Kano, R.

Kaneko, K., see Kumada, N.

Kano, R., Kaneko, K., Toshioka, S., Ishigaki, Y. & Aniya, K. Collection records of trombiculid mites on Yaeyama Island group, Ryukyu. Bull. Tokyo Med. dent. Univ. **3** 1956 : 67–72 figs. 1–7 + 1–9.

Kano, R., see Sasa, M. & (1) (2).

Kantack, J. & Knutson, H. Chemical control studies of the wheat curl mite. J. econ. Ent. **51** : 68–72.

Karpovitch, V., see Dubinin, V. (4).

Karppinen, E. Beobachtungen über das Vorkommen von Arten der Familie Erythraeidae (Acar.) in Finnland sowie Veränderungen in deren Nomenklatur. Ann. ent. fenn. **24** : 42–45.

Karppinen, E. (1). Untersuchungen über die Oribatiden (Acar.) der Waldböden von *Hylocomium-Myrtillus* Typ in Nordfinnland. Ann. ent. fenn. **24** : 149–168 figs. 1–8.

Karppinen, E. (2). Mitteilungen über einige für Finnland neue Oribatiden (Acar.). Ann. ent. fenn. **24** : 192–196 figs. 1–4.

Karppinen, E. (3). Über die Oribatiden (Acar.) der finnischen Waldböden. Ann. zool. Soc. Vanamo **19** : 1–43 figs. 1–9.

Karppinen, E. (4). Über die Oribatidenfauna (Acar.) in den Uferzonen von einem Teiche im Kirchspiel Lammi in Südfinnland. Arch. Soc. zool. bot. fenn. 'Vanamo' **12** 1957 (1958) : 128–142 figs. 1–9.

Karulin, B. E., see Zhmaeva, Z. M.

Kaschula, V. see Stephan, S.

Katagihallimati, S. S. A note on the incidence of some important insect pests of cotton at the Agricultural College Farm, Dharwar. Mysore agric. J. **33** : 197–199.

Kato, Y. & Kitahara, K. A new species of Erythraeidae infesting horsefly from Kuroshima. Japan. J. sanit. Zool. **9** : 171–174 figs. 1–7. [Not seen.]

Kawashima, K. Studies on larval erythraeid mites parasitic on arthropods from Japan. (Acarina: Erythraeidae). Kyushu J. Med. Sci. **9** : 190–211 figs. 1–11.

Kawashima, K. see Kamo, H. (1).

Kawecki, Z. & Wysoczynska, H. Isolation of strains of tick encephalitis from *Microtus arvalis* in the Szczecin District. Bull. Inst. mar. Med. Gdansk **9** : 5–10.

Kawecki, Z., see Lachmajer, J. (1).

Keifer, H. H. Eriophyid studies XXV. Bull. Calif. Dept. Agric. **46** 1957 : 242–248 pls. 249–253.

Keifer, H. H., see Pritchard, A. E. (1).

Kekenbosch, J. Araignées nouvelles pour la faune de Belgique: *Drepanotylus uncatus* (Cambridge) et *Cryptoeaca silvicolæ* (C. L. Koch). Bull. Ann. Soc. ent. Belg. **94** : 129–130.

Kekenbosch, J. (1). Araignée nouvelle pour la faune de Belgique: *Synageles hilarulus* (C. Koch). Bull. Ann. Soc. ent. Belg. **94** : 229–230.

Kekenbosch, J. (2). *Clubiona* nouveaux ou peu connus de la faune de Belgique. Bull. Ann. Soc. ent. Belg. **94** : 294–295.

Kekenbosch, J. (3). *Atypus affinis* Eichwald en Belgique (Araneae, Mygalomorphe). Bull. Ann. Soc. ent. Belg. **94** : 296–297.

Kekenbosch, J. (4). Notes sur les araignées de la faune de Belgique. II. Clubionidae. Bull. Inst. Sci. nat. Belg. **34** (26) : 1–12.

Kekenbosch, J. (5). Note sur quelques araignées de la Baraque-Fraiture. Bull. Inst. Sci. nat. Belg. **34** (35) : 1–8.

Kennedy, P. C., see Schaffer, M. H.

Kennett, C. E. Some predaceous mites of the subfamilies Phytoseiinae and Aceosejinae (Acarina: Phytoseiidae) from Central California with descriptions of new species. Ann. ent. Soc. Amer. **51** : 471–479 figs. 1–40.

Kepka, O. Ein Beitrag zur Systematik, Ökologie und Verbreitung von *Euschöngastia xerothermobia* Willmann 1942 (Acaria: Trombiculidae, U-Fam. Trombiculinae). Z. Parasit. **18** : 324–348 figs. 1–8.

Kepka, O. (1). Eine neue Art des Genus *Euschöngastia* (Trombiculidae, Acari) aus Italien. Z. Parasit. **18** : 423–427 figs. 1–4.

Kepka, O. (2). Eine neue Art des genus *Cheladonta* aus Österreich. Zool. Anz. **160** : 151–158 figs. 1–5.

Kers, D. [Control of the strawberry crown mite (*Tarsonemus pallidus*) is no problem any more.] Groenten en Fruit **13** 1957 : 521. [Dutch]. [Not seen.]

Khan, M. Q. & Murthy, D. V. *Dicanthium annulatum* Stapf.—an important alternate host plant of jowar and sugarcane mites. Indian J. Ent. **18** 1956 : 198–199.

Khonyak, I. G., see Gamaleev, A. D.

[**Khrushcheva, N. F. & Rementzova, M. M.**] [On the role of mites in distribution of brucellosis.] Ninth Conf. parasit. Probl. 1957 : 269–270. [In Russian.]

Kielczewski, B. [Research on the parasitic mites of small wood rodents.] Wiad. Parazytol. **4** : 207–210. [In Polish, Russian & English summaries.]

King, J. R. & Johnson, R. B. Comparison of experimental miticides for the control of purple mite, *Metatetranychus citri* (McG.) on citrus. Proc. Fla. Hort. Soc. **70** 1957 : 69–75.

King, J. P., see Johnson, R. B. (2).

Kitahara, K. [On chigger mites collected from Kuroshima (Kyushu).] Report of Kagoshima Medical College **2** (2) 1952 : 4–5. [In Japanese.] [Not seen.]

Kitahara, K., see Kato, Y.

Kitaoka, S. & Yajima, A. Physiological and ecological studies on some ticks. I. Process of growth by blood-sucking. Bull. nat. Inst. Anim. Hlth. Tokyo No. 34 : 135–147 figs. 1–4.

Kitaoka, S. & Yajima, A. (1). Physiological and ecological studies on some ticks. II. Phase change of ovipositing ability with blood-sucking quantity. Bull. nat. Inst. Anim. Hlth. Tokyo No. 34 : 149–162 figs. 1–8.

Kitaoka, S. & Yajima, A. (2). Effects of insecticides on ticks. I. Inhibitory dosage to the development and change of the resistance during blood-sucking. Jap. J. appl. Ent. Zool. **1** 1957 : 254–258. [Japanese, English summary.]

Kitaoka, S. & Yajima, A. (3). Effects of insecticides on ticks. II. Effect on loss of body weight and oviposition of ticks. Jap. J. appl. Ent. Zool. **2** : 11–16 illust. [In Japanese, English summary.]

Kjellesvig-Waering, E. N. Some previously unknown morphological structures of *Carcinosoma newlini* (Claypole). J. Paleont. **32** : 295–303 pls. 41–43 figs. 1–10.

Kjellesvig-Waering, E. N. (1). The genera, species and subspecies of the family Eurypteridae, Burmeister, 1845. J. Paleont. **32** : 1107–1148 pls. 143–148 figs. 1–27.

Kleinschmidt, R. P. The mouse spider. [*Missulena occatoria* Walcken-aer]. Queensl. agric. J. **83** 1957 : 502 fig.

Kmet, J., see Likar, M.

Knutson, H., see Kantack, J.

Kohls, G. M. *Amblyomma imitator*, a new species of tick from Texas and Mexico, and remarks on the synonymy of *A. cajennense* (Fabricius) (Acarina-Ixodidae). J. Parasit. **44** : 430-433 figs. 1-2.

Kohls, G. M., see Eklund, C. M.

Kok, J., see Hoeke, J. O. O.

Kolb, A. *Limulus*-Spuren. Geol. Bl. No - Bayern **7** 1957 : 138-155 pls. 4-5 figs. 1-6.

Kolosváry, G. Das Leben der Tisza. IV. Die Tierwelt der Tisza auf Grund neuerer Sammlungen und Beobachtungen 7. Spinnentiere. Acta biol. Szeged N.S. **4** : 215-216.

[Kondrashkina, K. I.] [Some data on a possible role of *Rhipicephalus schultzei* Olenev prolonged harbouring of the germs of plague in nature.] Ninth Conf. parasit. Probl. 1957 : 116-117. [In Russian.]

Konno, S. On the larva and nymph of *Radfordia lemnia* (Koch) from a vole of Alaska. Jap. J. vet. Res. **5** 1957 : 86-88 figs. [Not seen.]

Kopilova, O. A., see Zhovtii, I. F.

Korshunova, O. S., see Piontkovskaya, S. P.

Korth, U. Das Verhältnis der Domatiennmilbe *Typhlodromus tiliae* zur Linde. Zool. Anz. **160** : 108-109.

Kôsaka, K., see Asanuma, K. (4).

Kotlan, A. On the part of ticks in transmission of infectious and invasional diseases to man and animals in Hungary. Wiad. Parazytyt. **3** 1957 : 205-208. [English summary.]

Kowalski, K. The cave fauna of the Polish Tatra mountains. Ochr. Prayr. **23** 1955 : 283-333 figs. 107-117. [English summary.]

Kozar, Z., see Grabda, E.

Kozhevnikov, Y. F., see Maslov, A. V.

[Kozlova, R. G.] [Parthenogenesis in certain mites belonging to the family

Laelaptidae(Parasitiformes, Gamasides)]. Med. Parazit. Moskva **26** 1957 : 736-739. [In Russian.] [Not seen.]

[Kozlova, R. G.] (1). [On the biology of *Eulaelaps stabularis* Koch (Gamasides, Parasitiformes).] Ninth Conf. parasit. Probl. 1957 : 114-115. [In Russian.]

Kozłowski, S. The Haemogamasidae of the Białowieża National Park. Wiad. Parazytyt. **4** : 727-729. [English translation.]

Kozłowski, S. (1). A station of *Trombicula zachvatkini* Szluger, 1948 in Poland. Wiad. Parazytyt. **4** : 745-746. [English translation.]

Kozłowski, S. (2). The first report on acariasis in insects. Wiad. Parazytyt. **4** : 747-749. [English translation.]

Kozłowski, S., Mirski, B. & Zoltowski, Z. (3). An instance of generalized porocephalosis in monkey caused by nymphs of the species *Armillifer moniliiformis* (Diesing, 1836). Wiad. Parazytyt. **4** : 755-757. [English translation.]

Kozłowski, S., Walentynowicz-Stanczyk, R. & Zoltowski, Z. (4). *Pneumonyssus simicola* Banks 1901, a lung parasite of the monkeys of the species *Macacus rhesus* and *Macacus cynomolgus*. Wiad. Parazytyt. **4** : 751-753. [English translation.]

Kozłowski, S. & Zukowski, K. (5). Research on the parasitic Gamasides (Parasitiformes, Mesostigmata) of Białowieża National Park 1955-1956. Wiad. Parazytyt. **4** : 731-733. [English summary.]

Kramář, J. Occurrence of the mite *Pyemotes (Pediculoides) ventricosus* in Czechoslovakia. Česk. parazit. **4** 1957 : 205-207 pls. 1-2. [English summary.]

Krantz, G. W. *Cryptognathus sternalis*, a new species of prostigmatid mite from Oregon. Pan-Pacific Ent. **34** : 81-85 figs. 1-2.

Krantz, G. W. (1). *Lobogyniella tragardhi*, a new genus and species of diplogyniid mite associated with damp-wood termites in Oregon (Acarina, Diplogyniidae). Proc. ent. Soc. Wash. **60** : 127-131 figs. 1-7

[Krasinskaya, A. L.] [*Eriophyes mali* and its pathogenic importance.] Ninth Conf. parasit. Probl. 1957 : 118-119. [In Russian.]

Kratochvil, J., Balát, F. & Pelikan, J. Ergebnisse der zoologischen Expedition der Tschechoslowakischen Akademie der Wissenschaften nach Bulgarien (Teil I). Die Höhlenweberknechte Bulgariens (Cyphophthalmi und Laniatores). Acta Acad. Sci. Čech. Brno **30** : 372-396 figs. 1-21.

Kratochvil, J. & Miller, F. (1). Ergebnisse der zoologischen Expedition der Tschechoslowakischen Akademie der Wissenschaften nach Bulgarien (Teil II). Höhlenweberknechte Bulgariens (Palpatores—Nemastomatidae). Acta Acad. Sci. Čech. Brno **30** : 523-576 figs. 1-47.

Kraus, O. Myriapoda (Chilopoda, Diplopoda). Explor. Parc nat. Upemba. Miss. de Witte No. 54 : 3-67 figs. 1-119.

Kraus, O. (1). Diplopoden aus Angola. Publ. cult. Comp. Diam. Angola No. 38 : 47-84 figs. 1-94.

Kraus, O. (2). Myriapoden von den Galapagos-Inseln. Senck. biol. **39** : 97-102 figs. 1-9.

Kraus, O. (3). Myriapoden aus Ostafrika (Tanganyika Territory). Veröff. Überseemus. Bremen **3A** : 1-16 pls., 1-4. figs. 1-2.

Krczal, H. Einige neue, nordschwedische Milben-Arten der Gattung *Pygmyphorus*. Medd. Vaxtskyddsanst. Stockh. **11** 72 : 61-80 figs. 1-34.

Kriegel, J. Latrodetisme (maladie due à une piqûre d'araignée). Dapim Refuim **14** 1955 nos. 5-6. [Not seen.]

Kriegler, P. J. Insignificant mite has now become a serious pest. [Tetranychus telarius.] Farming in S. Afr. **34** : 33 fig.

Krishna, D. Chemical nature of the yolk nucleus in the eggs of the Indian water-spider, *Lycosa birmanica* Thor. Sci. & Cult. **23** : 651.

Kritscher, E. *Dactylopisthes digiticeps* (Simon 1881) (Aran., Micryphantidae), eine für Österreich neue Spinne. Ann. naturh. Mus. Wien **62** : 233-235 fig. 1-4.

Kritscher, E., see Beier, M. (5).

Krongelb, G. S., see Raper, J. R.

Kryzhanovskaya, V. V. [Mammals as tick hosts in the Tomsk nidus of tick encephalitis.] Trud. Tomsk Nauch.-Issledov. Inst. Vaktsin i Syvorotok **1956** : 38-42. [In Russian.] [Not seen.]

Kuan, K.-I., see Bondarenko, N. V. (2).

Kubota, J. Studies on the physical properties of spider silk. 2. On the peculiar qualities in the tensile test of spider fibres. Res. Repts Fac. Textile & Sericul. Shinshu Univ. **6** 1956 : 101-103 figs. [In Japanese, English summary.]

Kuenen, D. J. & Post, A. Influence of treatments on predators and other limiting factors of *Metatetranychus ulmi* (Koch). Proc. 10th Int. Cong. Ent. Montreal **4** 1958 : 611-615.

Kuentzlev, E. J. Niche relations of three species of lycosid spiders. Ecology **39** : 494-500 figs. 1-2.

Kuhk, R. & Rabelev, W. *Eresus niger* (Pet.), Araneina, auf nordwestdeutschen Zwergrauhalden. Beitr. Naturk. nedersachs. Suppl. 1956 : 211-214 figs. 1-2.

Kullmann, E. Beobachtung des Netzbaues und Beiträge zur Biologie von *Cyrtophora citricola* Forskal (Araeae, Araneidae) (Zugleich ein Beitrag zur Phylogenie der Radnetzspinnen). Zool. Jb. Syst. **86** : 181-216 pls. 2-5 figs. 1-22.

Kumada, N. & Kaneko, K. Entomological and endemics survey in Niijima, a small island proximal to Tokyo. Part 2. On the ectoparasites of rodents and birds. Otya no Mizu Igaku Zassi **3** 1955 : 145-148. [In Japanese.] [Not seen.]

Kumada, N., see Sasa, M.

Kunst, M. *Euscheloribates samšináki* n.g., n.sp., Eine neue Moosmilbe aus der Tschechoslowakei (Acarina, Oribatei). Acta Soc. ent. Čech. **55** : 67-70 figs. 1-2.

Kunst, M. (1). Bulgarische Oribatiden (Acarina) I. Acta Univ. Carolinæ Biol. **3** 1957 : 133-165 figs. 1-13.

Kunst, M. (2). Bulgarische Oribatiden (Acarina) II. Acta Univ. Carolinæ Biol. **5** : 13-31 figs. 1-6.

Kurbanov, G. G. Predatory insects and mites which destroy the cotton mite under Azerbaijan conditions. Izv. Akad. Nauk Azerbaijan SSR. **1957** : 77-87. [Azerbaijanian.] [Not seen.]

Kurtpinar, H. [Investigations on injury to the health of man caused by *Argas reflexus* Fabr. (pigeon tick) in Anatolia. *Turk. Bull. Hyg. exp. Biol.* **17** 1957 : 237-243 figs. 1-3. [English summary.]

[**Kusov, V. N.**] [On the methods in studying the *Ornithodoros* ticks in their natural conditions.] Ninth Conf. parasit. Probl. 1957 : 130-131. [In Russian.]

Kux, Z., see Grulich, I.

Kuzmichev, V. Ya. Detection of the tick *Carios vespertilionis* at the place of storage of DDT and BHC dusts. *Med. Parazit.*, Moskva **27** : 51. [In Russian.] [Not seen.]

[**Kuznetzov, P. K.**] [Some data on the development of *Ixodes ricinus*, L. and observations in natural environment in Voronezh Province.] Ninth Conf. parasit. Probl. 1957 : 123-124. [In Russian.]

Lachmajer, J., Skierska, B., & Wegner, Z. [Ticks of the genus *Haemaphysalis* Koch (Ixodidae) found in the territories of Poland. *Biul. Inst. Med. Morskiej w. Gdansku* **7** 1956 : 187-195 figs. [In Polish, Russian & English summaries.] [Not seen.]

Lachmajer, J. Wegner, Z. & Kawecki, Z. (1). Spontaneous infection of ticks, *Ixodes ricinus*, with the virus of tick encephalitis in the coast-district. *Bull. Inst. mar. Med. Gdansk* **8** 1957 : 173-182 figs. 1-3. [Summaries in Polish & Russian.]

LaDue, J. P., see Riehl, L. A.

Lainson, R. Some observations on the life-cycle of *Atoxoplasma*, with particular reference to the parasite's schizogony and its transmission by the mite *Dermanyssus gallinae*. *Nature, Lond.* **182** : 1250-1251 fig. 1.

Lal, M. B. & Shrivastava, S. C. Some studies on the epicuticle of some Indian scorpions. *Proc. Indian sci. Congr.* **44** 1957 [1958] : 24. [Abstract.]

Lalitha, C. M., see Alwar, V. S.

Lamb, K. P. Field guide to red spider mites infesting fruit trees. *Orchardist N. Z.* **30** 1957 : 22-23. [Not seen.]

Lamont, A. Scottish Silurian Chelicerata. *Trans. Edinb. geol. Soc.* **16** 1955 : 200-216 pls. 2-5 text-figs. 1-2.

Lamore, D. H. The jumping spider, *Phidippus audax* Hentz, and the spider *Conopistha trigona* Hentz as predators of the basilica spider, *Allepeira lemniscata* Walckenaer, in Maryland. *Proc. ent. Soc. Wash.* **60** : 286.

Lancaster, J. L. jr. Control of the lone star tick. *Arkansas Agric. exp. Sta. Rep. Ser.* **67** : 1-16.

Lancaster, J. L. (1). Some effects of varying temperature and humidity on the lone star tick (*Amblyomma americanum* Linnaeus.) *Proc. 10th Int. Cong. Ent. Montreal* **3** 1956 (1958) : 849-851.

Lang, D. S., see Beer, R. E. (2).

Lang, J. *Microchordeuma voigtii* Verh. and *Macheiriophoron wehranum wehranum* Verh., two species of Diplopoda from Czechoslovakia. *Mém. Soc. zool. tchécosl.* **22** : 193-198 figs. 1-7.

Lang, J. (1). On the pseudoparasitism of Diplopoda. *Vestn. čsl. Spolec. Zool.* **22** : 104-110. [Not seen.]

[**Lange, A. B.**] [Laboratory culture of gamasids.] Ninth Conf. parasit. Probl. 1957 : 134-135. [In Russian.]

[**Lange, A. B. (1).**] [Taxonomy of mites of the Parasitiformes.] Ninth Conf. parasit. Probl. 1957 : 135-136. [In Russian.]

Langenscheidt, M. Embryologische, Morphologische und Histologische Untersuchungen an *Knemidocopies mutans* (Robin et Lanquetin). *Z. Parasit.* **18** : 349-385 figs. 1-24.

Lapage, G. Parasitic animals. Cambridge, England Ed. 2 : xiii + 355 113 figs.

Láska, F. Studien am torrenticolen Wassermilben des Reichensteiner Gebirges in Schlesien. *Práce Brn. Zákl. Česk. Akad. Ved* **29** 1957 : 325-351 figs. 1-9. [German summary.]

Láska, F. (1). Beitrag zur Kenntnis der Wassermilben des Hultschiner Ländchens (Schlesien). *Prirod. Sborn. Ostravsk. Kraje* **19** : 161-184 figs. 1-8. [German summary.]

La Touche, A. A. D., see Locket, G. H.

Lavoipierre, M. M. J. A preliminary description of a new species of *Chorioptes* from an African antelope. *Ann. trop. Med. Parasit.* **52** : 384.

Lavoipierre, M. M. J. (1). Notes on a new species of *Myonyssoides* (Acarina, Laelaptidae) from a mole-rat. Ann. trop. Med. Parasit. **52** : 518 figs. a-b.

Lavoipierre, M. M. J. (2). Some mites responsible for skin disease in birds. Trans. roy. Soc. trop. Med. Hyg. **52** : 300. [Lab. meeting.]

Lavoipierre, M. M. J. & Johnson, M. A. (3). Variations in the setal pattern of the genito-ventral shield of *Laelaps muricola muricola* and *L. m. wittei*, acarine parasites of African rodents. Trans. roy. Soc. trop. Med. Hyg. **52** : 21. [Lab. meeting.]

Lawrence, R. F. Contributions to the Myriapoda of Natal and Zululand. Ann. Natal Mus. **14** : 279-301 figs. 1-6.

Lawrence, R. F. (1). Whipscorpions (Uropygi) from Angola, the Belgian Congo and Mossambique. Publ. cult. Comp. Diam. Angola No. 40 : 69-79 figs. 1-4.

Lawrence, R. F. (2). A collection of cavernicolous Arachnida from French Equatorial Africa. Rev. suisse Zool. **65** : 857-866 figs. 1-3.

Lawrence, R. F. (3). Die spinnekoppe, jagspinnekoppe en skerpioene van ons land. Soek-en leer-reeks No. 3 1943 : 1-130 figs. 1-25. [In Afrikaans.]

Lazuk, A. D. The main biotops and the seasonal variations in the number of ixodid ticks in the northern part of the Moscow region. Med. Parazit. Moskva **27** : 41-47. [In Russian, English summary.] [Not seen.]

[**Lebedev, V.**] [Effect of biological characteristics of plants and ecological factors on cotton resistance to the spider mite]. Khlopkovodstvo **7** 1957 : 40-42. [Russian.] [Not seen.]

Lebez, D. Beiträge zum Studium des Giftes von *Latrodectus 13-guttatus* Rossi. Z. phys. Chem. **298** 1954 : 73-76.

Lebrun, D. Contribution à l'étude de la faune du Massif Amoricain. Myriapodes chilopodes recueillis dans la région d'Avranches (Manche). Bull. Soc. Sci. Bretagne **31** (1956) 1958 : 63-65.

Lee, K. T. A study on ticks on Cheju Island. J. appl. Zool. Korea **1** : 36-43.

Legendre, R. Recherches sur l'olfaction des araignées. Ann. Sci. nat. (Zool.) Ser. **11 20** : 141-155 figs. 1-5.

Legendre, R. (1). Contributions à l'étude du système nerveux des aranéides. Année biol. (3) **34** : 193-223 figs. 1-11.

Legendre, R. (2). Contribution à l'étude du développement embryonnaire des araignées. Bull. Soc. zool. Fr. **83** : 60-75 pl. 1 figs. 1-3.

Legendre, R. (3). Mise en évidence chez les Arachnides de phénomènes induisant l'apparition de cellules à caractères nerveux. C.R. Acad. Sci. Paris **246** : 2669-2672 figs. a-c.

Legendre, R. (4). Sur la structure du complexe endocrine rétrocérébral de l'araignée *Mygalomorpha Scodra (= Stromatopelma) calceata* Fabr. (Theraphosidae). C.R. Acad. Sci. Paris **246** : 3671-3674.

Leleup, N. Récoltes de Pseudoscorpions guanophiles phoretiques sur chiroptères au Congo Belge. Folia sci. afr. centr. **4** : 32.

Leillač, J. Die Bodenfauna zweier Teichen und ihre temporare Periodizität. Mém. Soc. zool. tchécosl. **22** : 203-231 figs. 1-4 tab. 1-2.

Lepointe, J. Observations sur l'écologie des *Myrmarachne*. Vie et Milieu **9** : 110-113.

Leutze, W. P. Eurypterids from the Silurian Tymochtee dolomite of Ohio. J. Paleont. **32** : 937-942 pl. 122.

Levi, H. W. Spiders of the genus *Arctachaea* (Araneae, Theridiidae). Psyche, Camb. Mass. **64** 1957 : 102-106 figs. 1-13.

Levi, H. W. (1). Number of species of black-widow spiders (Theridiidae: *Latrodectus*). Science **127** : 1055.

Levit, A. B., see Gadalin, Y. I.

Lichtwardt, R. W. Three species of Eccrinales inhabiting the hindguts of millipedes, with comments on the Eccrinids as a group. Mycologia **46** 1954 : 564-585 figs. 1-29.

Lichtwardt, R. W. (1). An *Entero'bryus* occurring in the millipede *Scytonotus granulatus* (Say). Mycologia **49** 1957 : 734-739 figs. 1-14.

Lichtwardt, R. W. (2). An *Entero'bryus* from the millipede *Boraria carolina* (Chamberlin). Mycologia **50** : 550-561 figs. 1-20.

Likar, M. & Kmet, J. Virus meningoencephalitis in Slovenia. 4. Isolation of the virus from the ticks *Ixodes ricinus*. Bull. World Hlth. Org. **15** 1956 : 275-279.

Lin, S.-j., see Yu, E.-s.

Lindgren, D. L., see Vincent, L. E.

Lindroth, C. H. The faunal connections between Europe and North America. New York, (John Wiley & Sons Inc.) 1957 pp. 344 61 figs.

Lipa, J. J. Some observations upon the fauna of the winter nests of *Euproctis chrysorrhoea* (Lepidoptera). Ent. News **69** : 60.

Lipovsky, L. J., see Traub, R.

Lissitzky, S., see Miranda, F.

Liu, C.-s. Two *Myobia* mites from Inner Mongolia. Acta ent. Sinica **8** : 369-370 figs. 1-6. [In Chinese.]

Liu, C.-w. Three species of chigger mites from Peking. Acta ent. Sinica **8** : 183-188 pls. 1-2. [In Chinese and English.]

Löcher, F. J. Der Einfluss von Dichlordiphenyltrichlormethylmethan (DDT) auf einige Tetranychiden (Acari, Tetranychidae). Z. angew. Zool. **45** : 201-248 figs. 1-4.

Locket, G. H., Millidge, A. F. & La Touche, A. A. D. On new and rare British spiders. Ann. Mag. Nat. Hist. (13) **1** : 137-146 figs. 1-3.

Locket, G. H., see Duffey, E.

Lokshina, I. E. Study of the Myriapoda fauna USSR. in Aleinikova M. M. & others. All-Union conference on soil zoology. Summary of papers. Moscow: 61-63. [In Russian.]

Lombardini, G. Acari nuovi xxxvi (Acarini cavernicoli delle Puglie). Boll. Soc. Nat. Napoli **67** : 3-8 figs. 1-3.

Lombardini, G. (1). *Achorolophus boccettii* n. sp. (Acarina-Erythraeidae). Redia **43** : 295-296 fig.

Lombardini, G. (2). Acari nuovi xxxv. Redia **43** : 311-313 figs. 1-2.

Loomis, H. F. A new family of millipedes on Barro Colorado Island, Canal Zone. J. Wash. Acad. Sci. **48** : 235-237 figs. 1-4.

Lord, F. T., Herbert, H. J. & MacPhee, A. W. The natural control of phyto-

phagous mites on apple trees in Nova Scotia. Proc. 10th. Int. Cong. Ent. Montreal **4** 1957 (1958) : 617-622.

Lorenzo, A. P. Los arthropodos vectores de enfermedades infecciosas y parasitarias en el hombre. Med. trop., Madrid **31** : 426-455; **32** : 139-193 figs. 1-38.

[**Losina-Losinsky, L. K. & Turpaeva, E. P.**] [The genus *Colossendeis* (Pantopoda) in the northern part of the Pacific Ocean.] Bull. Soc. Nat. Moscow biol. **63** : 23-33 figs. 1-4. [In Russian, English summary.]

Lototskii, B. V. Systematic position of *Rhipicephalus (Digineus) bursa* Can. & Fanz. 1877 (Ixodidae). Izv. Akad. Nauk Tadzhik. SSR. Otd. Estest. Nauk 1956 (17) : 89-103. [In Russian.] [Not seen.]

Lototskii, B. V., Muratov, E. A., Sosnina, E. F. & Davydov, G. S. (1). Sanitation of natural pastures in Tadzhikistan. Izv. Akad. Nauk Tadzhik. SSR. Otd. Estest. Nauk 1956 (14) : 115-122. [In Russian.] [Not seen.]

Lototskii, B. V., Sosnina, E. F. & Tzvileneva, V. A. (2). [On the localization of ixodids in the skin of some rodents.] Ninth Conf. parasit. Probl. 1957 : 145-146. [In Russian.]

Love, G. J., see Smith, W. W.

Luque Forero, G. La *Linguatula serrata* (Frohlich 1789) primera comprobacion de las ninfas de esta especie en Colombia. Rev. Fac. med. vet. Zooteen., Bogota **21** no. 118 1957 : 595-596. [Not seen.]

Lutta, A. S. & Schulman, R. E. Influence of microclimatic conditions of the meadow and forest on the survival and activity of the tick *Ixodes ricinus* L. Zool. Zh. **37** : 1813-1822.

McAlister, H. J., see Clancy, D. W.

McBride, J. J. jr., see Johnson, R. B. (2).

McCarthy, P. H. Know the tick that causes paralysis. Queensl. Agric. J. **84** : 230-234 figs.

McClellan, W. D., Taylor, E. A. & Smith, F. F. Winter treatments of dormant roses and their relation to blackspot and spider mite control. Phytopath. **48** : 408-410 fig.

McDonald, C. N., see Gaafar, S. M.

McEwen, F. L., see Gilmer, R. M.

Macfarlane, D. & Eastop, V. F. Two aphids described as mites. Entomologist 91 : 109.

Mačička, O. K. bionomii *Haemaphysalis inermis* Birula unás. Čsl. parazit. 5 : 121-124. [In Czech.]

Mačička, O. & Nosek, J. (1). Die gemeine Zecke—*Ixodes ricinus* L.—als Parasit des Jagdwildes im Gebiet von Topol'čianky. Biologia, Bratislava 18 : 489-495 figs. 1-5. [German summary.]

Mačička, O. & Nosek, J. (2). On the bionomy and incidence of *Argas persicus* (Oken 1818) in Slovakia. Vet. Casopis, Bratislava 7 : 283-286 figs. 1-3. [In Czech, summaries.] [Not seen.]

Mackie, D. W. Some Arachnida of a Lancashire Clough, with habitat notes on two new county records. Naturalist No. 866 : 97-98.

Macnichol, E. F. jr. Subthreshold excitatory processes in the eye of *Limulus*. Exp. Cell Res. Suppl. 5 : 411-425 figs. 1-16.

MacPhee, A. W., see Lord, F. T.

Mahadevan, V., see Subbiah, M. S.

Malhomme, M. Notes de terrain. Les scorpions du Maroc: leurs proies. C.R. Soc. Sci. nat. Maroc 23 1957 : 130-131.

Malkov, G. B., see Shilova, S. A. (1).

Malone, J. C., see Hart, C. B.

[**Mamikonyan, M. M.**] [Data on ecology of the ixodids belonging to the genera *Hyalomma*, *Rhipicephalus* and *Dermacentor* in Armenia.] Ninth Conf. parasit. Probl. 1957 : 148-149. [In Russian.]

Mamikonyan, M. M. (1). [Certain data on the ecology of ixodids of the genera *Hyalomma* Koch, *Rhipicephalus* Koch, and *Dermacentor* Koch in Armenian SSR.] Trud. Vet. Erivan. Armian, Nauch-Issled, Inst. Zhivotn. i Vet. 9 1956 : 149-151. [Russian.] [Not seen.]

Manfredi, P. I. Myriapodi del Monte Pollino (Calabria) e considerazioni intorno ai Miriapodi dell' Italia Meridionale. Annu. Ist. Zool. Univ. Napoli 9 (2) 1957 : 1-43 pls. 1-5 figs. 1-5.

Manfredi, P. (1). Nuovo scolopendride cavernicolo americano. Bol. Soc. venezol. Cienc. nat. 18 1957 : 175-180 figs. 1-2. [English, etc. summaries.]

Manfredi, P. (2). Un nouveau polydesmien cavernicole de l'Assam (Inde). Notes biospéol. 9 1954 : 141-144 figs. 1-2.

Manier, J. F., see Jeekel, C. A. W.

Manier, J.-F., see Tuzet, O. & (1), (2), (3), (4).

Manton, S. M. Hydrostatic pressure and leg extension in arthropods, with special reference to arachnids. Ann. Mag. nat. Hist. Ser. 13 1 : 161-182 pl. 3 figs. 1-5.

Manton, S. M. (1). The evolution of arthropodan locomotory mechanisms. Part 6. Habits and evolution of the Lysiopetaloidae [Diplopoda], some principles of leg design in Diplopoda and Chilopoda, and limb structure of Diplopoda. J. Linn. Soc. (Zool.) 43 : 487-556 pl. 9 figs. 1-21.

Manton, S. M. (2). Habits of life and evolution of body design in Arthropoda. J. Linn. Soc. (Zool.) 44 : 58-72 pls. 1-2 fig. 1.

Marcu, O. Ixodides cavernicoles de la République Populare Roumaine. Stud. Cercet. Biol., Bucureşti. 8 1957 : 209-211. [In Rumanian, Russian & French résumés.]

[**Marechek, G. I.**] [On the ecology of *Tetranychus urticae* Koch on cotton plants.] Ninth Conf. parasit. Probl. 1957 : 149-150. [In Russian.]

Maretic, Z., see Jelasic, V. F.

Märkel, K. Die Einwirkung des Klimas auf die Oribatidenfauna des Rohhumus. Naturwissenschaften 45 : 248-249 fig.

Märkel, K. & Meyer, I. (1). *Suctobelba prelli* n. sp. (Acari, Oribatei). Zool. Anz. 161 : 165-167 figs. 1-3.

[**Markov, A. A., Abramov, I. V., Stepanova, N. I. & Zotov, A. P.**] [Experimental studies on vectors, babesiosis of sheep, piroplasmosis of horses and Q-fever.] Ninth Conf. parasit. Probl. 1957 : 150-152. [In Russian.]

Marples, B. J. Spiders in Samoa and the Southwest Pacific. Proc. 8th Pac. Sci. Congr. 3A 1957 : 1573-1574.

- Marre, R.**, see Commeau, J.
- Marshall, J. R.**, see Brookes, R. F. & (1).
- Martin, H.** Pests and diseases of date palm in Libya. FAO. Plant Protect. Bull. 6 : 120-123.
- Martino, E. di.** Observations and control experiments against the 'yellow rust' of lemon caused by the common red spider (*Tetranychus telarius* L.). Ann. Sper. agr. N.S. 11 1957 : 115-138 pls. 1-4. [English summary.]
- Martirosian, M. Kh.** [On ixodid fauna of Azizbekov district, Armenian SSR.] Trud. Vet. Erivan Armian. Nauch.—Issled. Inst. Zhivotn. i. Vet. 9 1956 : 153-156. [Russian.] [Not seen.]
- [**Maslov, A. V., Shamrai, A. F., Zobnev, S. S., Gamaleev, A. D. & Kozhevnikov, Y. F.**] [Control of mosquitos and ticks in some regions of the Khabarovsk Land—in the regions of tick encephalitis.] Ninth Conf. parasit. Probl. 1957 : 154-156. [In Russian.]
- Massee, A. M.** New or uncommon plant disease and pests. Blackberry mite in Sussex. Plant Pathol. 7 : 37.
- Massee, A. M.**, see Collyer, E.
- Mathys, G.** The control of phytophagous mites in Swiss vineyards by *Typhlodromus* species. Proc. 10th. Int. Cong. Ent. Montreal 4 1956 (1958) : 607-610.
- Mathys, G. (2).** Etude des possibilités d'intervention contre *Phyllocoptes vitis* Nal., agent du courtoué parasitaire de la vigne. Rev. Romande Agric. Viticult. Arboricult. 13 1957 : 95-97. [Not seen.]
- Matic, Z.** Chilopods—valorous auxiliaries in the fight against forest pests. Natura, Bucureşti 10 : 86-90 fig. 1.
- Matic, Z. (1).** Description d'un nouveau *Lithobius* cavernicole des Pyrénées espagnoles n. sp. [Myriapoda Chilopoda.] Notes biospéol. 12 1957 : 127-135 figs. 1-8.
- Matic, Z. (2).** Contribution à la connaissance des lithobiidés cavernicoles de France (Collections Biospéologica, VIIe et VIIIe séries.) Notes biospéol., Paris 13 : 155-168 figs. 1-18.
- Matic, Z. (3).** Zur Kenntnis der Gattung *Harpolithobius* in Siebenbürgen (Chilopoda, Lithobiidae). Senck. biol. 39 : 91-95 figs. 1-3.
- Matic, Z. (4).** Contributions à la connaissance des chilopodes de nos grottes (I). Stud. Cercit. Biol., Bucureşti 8 1957 : 197-207 figs. 1-11.
- Matic, Z. (5).** Deux lithobiides nouveaux pour la faune de la R.P.R. et quelques remarques intéressantes sur *Lithobius forficatus*. Stud. Cercit. Biol. Cluj 9 : 81-89 figs. 1-13. [French summary.]
- Matic, Z. (6).** L'ordre *Scolopendromorpha* dans la faune de la République Populaire Roumaine [Preliminary note.] Stud. Cercit. Biol. Cluj 9 : 317-333 figs. 1-42. [French summary.]
- May, P. & Webster, W. J.** The bud strain of *Eriophyes vitis* (Pgst.) in Australia. J. Aust. Inst. agric. Sci. 24 : 163-166 fig.
- Mehrtens, J. M.** Giants of the spider world. Nature Mag. 51 : 523-525 6 figs.
- Meira, M. T. V. de, Ruffié, J. & Sousa, H. T. de.** Algumas carraças das ilhas de Cabo Verde. An. Inst. Med. trop. Lisboa 14 1957 : 425-427.
- Mellanby, K.** Scabies on the increase. Brit. med. J. No. 5070 : 579.
- Mello do Mascimento, F.**, see Costa, A.S.
- Melnikova, T.** Developmental cycle of *Hyalomma scupense* P. Sch. under natural conditions of the Crimean forest reserve.] Izv. Akad. Nauk Tadzhik. SSR. Otd. Estest. Nauk 1956 (15) : 121-126. [Russian.] [Not seen.]
- [**Melnikova, T. G.**] (1). [On the development of the tick *Haemaphysalis concinna* Koch under natural conditions of the Crimean State Game Preserve.] Zool. Zh. 37 : 297-300. [In Russian, English summary.]
- Meltzer, J. & Dietvorst, F. C.** Action of tediol on eggs and ovaries of spider mites. Tijdschr. PIziekt. 64 : 104-110.
- Melville, C.** An apparent beneficial effect of gamma-radiation on the flour mite. Nature, Lond. 181 : 1403-1404.
- Mendes, E. G. & Sawaya, P.** The oxygen consumption of "Onychophora" and its relation to size, temperature and oxygen tension. Rev. bras. Biol. 18 : 129-142 figs. 1-5.

Méndez, A. M. & Ortiz, I. Descripcion del macho y redescripcion de la hembra de *Amblyomma crassum* Robinson, 1926 (Acarina: Ixodidae). Mem. Soc. Cienc. nat. La Salle **17** 1957 : 190-199 pls. 1-2 6 figs.

Méndez, A., M. & Ortiz, I. (1). Revision de las garrapatas venezolanas del genero *Ixodes* Latreille, 1795 y estudio de un nuevo *Amblyomma* (Acarina: Ixodidae). Mem. Soc. Cienc. nat. La Salle **18** : 196-208 figs. 1-2 + 1-3.

Meyer, D. E. Orchideen und Spinnen. Willdenowia (Berlin-Dahlem) **1** 1956 : 665-668. [Not seen.]

Meyer, I., see Märkel, K. (1).

Meyer, M. K. P., see Ryke, P. A. J.

Meyers, R. A. J., see Roulston, W. J.

Meyers, R. A. J., see Stone, B. F.

Meyus, H., see Geerts, J.

Michael, A. S. Acarine disease found in India. Amer. Bee J. **97** 1957 : 107.

Miedzybrodzki, K., see Szwabowicz, K.

Mignolet, G., see Fain, A. (9).

Mihailov, M. Nekoliko podataka o raširenosti *Ornithodoros lahorensis* i pojavi tick paralisis kod ovaca u bitoljskom srezu za vreme 1949-1951 godine. [Incidence of *Ornithodoros lahorensis* and tick paralysis in sheep in Bitola, Yugoslavia.] Vet. Glash. **11** 1957 : 814-818 [Croat.] [Not seen.]

Mihelčič, F. Nuevos biotops de tardigrados. Contribution al conocimiento de la ecología de los tardigrados. An. Edafol. y Fisiol. Veg. **8** : 1949 : 511-526 figs. 1-5.

Mihelčič, F. (1). Contribucion al estudio de la ecología de los tardigrados que habitan suelos de humus. I: II. An. Edafol. y Fisiol. Veg. **11** 1952 : 407-446, 651-680.

Mihelčič, F. (2). Contribucion al conocimiento de los tardigrados, con especial consideracion de los tardigrados de Osttirol. I: II. An. Edafol. y Fisiol. Veg. **12** 1953 : 243-274 figs. 1-2; 431-479 figs. 1-12.

Mihelčič, F. (3). Importancia de los animales del suelo para la edafologia. An. Edafol. y Fisiol. Veg. **12** 1953 : 797-806.

Mihelčič, F. (4). Contribucion al conocimiento de los tardigrados de España. Estudio sistematico-ecológico. An. Edafol. y Fisiol. Veg. **13** 1954 : 103-109.

Mihelčič, F. (5). Contribucion a la ecología de los tardigrados de suelos humedos. An. Edafol. y Fisiol. Veg. **16** 1957 : 651-671 figs. 1-5.

Mihelčič, F. (6). El problema de las bioformas de los tardigrados. An. Edafol. y Fisiol. Veg. **16** 1957 (1958) 1197-1200.

Mihelčič, F. (7). Sobre la geofilia de los tardigrados. An. Edafol. y Fisiol. Veg. **17** : 397-405.

Mihelčič, F. (8). Sobre las comunidades animales de los suelos de España central. (Acari, Oribatei). An. Edafol. y Fisiol. Veg. **17** : 765-783.

Mihelčič, F. (9). Contribution al conocimiento de los oribátidos higrofilos. An. Edafol. y Fisiol. Veg. **17** : 853-889.

Mihelčič, F. (10). Algunas descripciones de oribátidos hallados en yacimientos húmedos. Eos **34** : 55-68 figs. 1-13.

Mihelčič, F. (11). Prostigmata Süd-europas (Spanien). Eos **34** : 269-290 figs. 1-20.

Mihelčič, F. (12). Zoologisch-sistematische Ergebnisse der Studienreise von H. Janetschek und W. Steiner in die spanische Sierra Nevada 1954. IX. Milben (Acarina). S.B. öst. Akad. Wiss. Abt. I **167** : 35-57 figs. 1-10.

Mihelčič, F. (13). Die Oribatiden Zentralspaniens. Verh. zool.-bot. Ges. Wien **97** 1957 : 14-26.

Mihelčič, F. (14). Eine neue Tardigradenart feuchter Standorte. Zool. Anz., **160** : 105-108 figs. 1.

Mihelčič, F. (15). Zur Kenntnis der Gletscherfauna Tirols. Zool. Anz. **160** : 147-150 fig. 1.

Mihelčič, F. (16). Revision und Beitrag zur Kenntnis einiger *Liacarus*-Arten aus Kärnten und Tirol. Zool. Anz. **161** : 86-90 figs. 1-8.

Mihelčič, F. (17). Einige neue Zercon-Arten (Milben, Acarina) aus Osttirol. Zool. Anz. **161** : 144-150 figs. 1-4.

Mihelčič, F. (18). Ein Beitrag zur Kenntnis der Acarina Osttirols. Zool. Anz. 161 : 249-255 figs. 1-5.

Mikulin, M. A., see Afanasyeva, O. V.

Miller, F. Eine neue *Leptphyphantes* (*L. tranteeri* sp. n.) aus den bulgarischen Höhlen. Acta Acad. Sci. Čech. Brno 30 : 577-583 figs. 48-55.

Miller, F. (1). Beitrag zur Kenntnis der tschechoslowakischen Spinnenarten aus der Gattung *Centromerus* Dahl. Acta Soc. ent. Čech. 55 : 71-91 pls. 1-5.

Miller, F. (2). Drei neue Spinnenarten aus den mährischen Steppengebieten. Mém. Soc. zool. tchécosl. 22 : 148-155 figs. 1-22.

Miller, F., see Kratochvil, J. (1).

Miller, W. H. Morphology of the ommatidia of the compound eye of *Limulus*. J. Biophys. Biochem. Cytol. 3 1957 : 421-428 pls. 126-129.

Miller, W. H., see Ratcliff, F.

Millidge, A. F., see Duffey, E.

Millidge, A. F., see Locket, G. H.

Milne, P. S. Acarine disease in *Apis indica*. Bee World 38 1957 : 156.

Milne, S. New or uncommon plant diseases and pests. *Sitopterites graminum* in Scotland. Plant Pathol. 6 1957 : 114.

Milstead, W. M. A list of the arthropods found in the stomachs of whiptail lizards from four stations in Southwestern Texas. Texas J. Sci. 10 : 443-446.

Ministry of Agriculture and Fish. External parasites of poultry. Minist. Agric. Fish., Lond. Anim. Hlth. Leaf't. No. 26 1955 : 9 pp. revised.

Miranda, F. & Lissitzky, S. Purification de la toxine du venin de scorpion (*Androctonus australis* L.). Biochim. Biophys. Acta 30 : 217-218 figs. 1-2.

Mironescu, I., see Feider, Z. (3).

Mirska, B., see Kozłowski, S. (3).

[Mishchenko, N. K.] [Investigation of birds and reptiles as reservoirs of Asian tick recurrent fever.] Ninth Conf. parasit. Probl. 1957 : 163-165. [In Russian.]

[Mishin, A. V.] [Motor reactions in *Ixodes persulcatus*. P. Sch., as affected by phytoncides.] C.R. Acad. Sci. URSS 120 : 911-913 2 figs.

[Mishin, A. V.] (1). [On the problem of autumn extermination of ticks in the natural foci of tick encephalitis.] Ninth Conf. parasit. Probl. 1957 : 161. [In Russian.]

[Mishin, A. V. & Gerasimova, E. N.] (2). [Epidemiology and parasitology of tick encephalitis in the Udmurt Republic.] Ninth Conf. parasit. Probl. 1957 : 162-163. [In Russian.]

Mistrick, W. J. jr. Chemical control of *Tetranychus telarius* (L.) and *T. cinnabarinus* (Bois.) on cotton. J. econ. Ent. 50 (1957) 1958 : 803-805.

Mistrick, W. J. jr. (1). Trithion and ethion for control of two-spotted spider mite on cotton. J. econ. Ent. 51 : 710-712.

Mitchell, R. Sperm transfer in the water-mite *Hydryphantus ruber* Geer. Amer. midl. Nat. 60 : 156-158 fig. 1.

Mitchell, R. (1). The evolution of exoskeletons and mite phylogeny. Proc. 10th. Int. Cong. Ent. Montreal 1 1956 (1958) : 863-865.

Mitchell, R. & Mitchell, A. V. (2). Studies of a new water-mite, *Tyrrellia hibbardi*, from Kansas springs. Trans. Amer. micr. Soc. 77 : 11-18 figs. 1-2.

[Mitrofanov, A. M.] [Aerosol as a controlling measure for mites and ticks.] Ninth Conf. parasit. Probl. 1957 : 158-159. [In Russian.]

Miura, A., see Sasa, M.

Miyosi, Y. Beiträge zur Kenntnis japanischer Myriopoden. 9. Aufsatz: Über eine neue Art von Leptodesmidae (Diplopoda) Anhängsel; Eine Neue Art von Mecistocephalidae aus Marcus-Insel. Zool. Mag. Tokyo 62 1953 : 186-188 figs. 1-2. [In Japanese, German summary.]

Miyosi, Y. (1). Beiträge zur Kenntnis japanischer Myriopoden. 23. Aufsatz: Über eine neue Gattung von Brachychaeteumidae und über japanische Brachychaeteumidae von Japan. Zool. Mag., Tokyo 67 : 176-179 figs. 1-2. [In Japanese, German summary.]

Miyosi, Y. (2). Beiträge zur Kenntnis japanischer Myriopoden 24. Aufsatz: Über eine neue Gattung von Diplopoda. Zool. Mag., Tokyo 67 : 180-183 figs. 1-2. [In Japanese, German summary.]

Miyosi, Y. (3). Beiträge zur Kenntnis japanischer Myriopoden. 25. Aufsatz: Über eine neue Gattung und eine neue Art von Diplopoden. Zool. Mag. Tokyo **67**: 297–300. figs. 1–2. [In Japanese, German summary.]

Miyosi, Y. (4). Beiträge zur Kenntnis japanischer Myriopoden. 26 Aufsatz: Über zwei neue Arten von *Kiusiunum* (Diplopoda). Zool. Mag. Tokyo **67**: 301–303 figs. 1–2. [In Japanese, German summary.]

[**Moiseenko, N. M.**] [Phenology of plants as indication of the seasonal activity of ixodids in the southern parts of the Khabarovsk Land.] Ninth Conf. parasit. Probl. 1957: 166–167. [In Russian.]

Monath, M. Barking spiders—*Selenocosmia crassipes*—Aviculariidae. N. Qd. Nat. **26** 118 1957: 8.

Monteiro Guimaraes, J. A. Os ácaros associados aos produtos armazenados. Contribuição para o seu inventário em Portugal. An. Jta. Invest. Ultramar, Lisboa **11** Tom. 2 1956: 35–50 pls. 1–3.

Monterosso, A. Note Araneologiche. XV. I primi studi embrionali di *Teutana triangulosa* (Walck) studiati in "vivo." R.C. Soc. ital. Sci. XL (3) **27** 1949: 135–145 pls. 1–2.

Monterosso, B. Note Araneologiche. XXIX. Osservazioni e ricerche sulla biologia di *Menemerus semilimbatus* (Hahn). Boll. Accad. Gioenia Sci. nat. Catania Ser. 4 **4**: 345–351.

Monterosso, B. (1). Note Araneologiche. XXX. Allevamento sperimentale di *Menemerus semilimbatus* (Hahn). Boll. Accad. Gioenia Sci. nat. Catania Ser. 4 **4**: 542–555.

Morel, P. C. Les tiques des animaux domestiques de l'Afrique Occidentale Française. Rev. Elevage Med. vet. Pays trop. (n.s.) **11**: 153–189 figs. 1–5. [Not seen.]

Morel, P. C. & Mouchet, J. (1). Les tiques du Cameroun (Ixodidae et Argasidae). Ann. Parasit. **33**: 69–111 figs. 1–2 maps 1–3.

Moreton, B. D. New or uncommon plant diseases and pests. Mushrooms damaged by tarsonemid mites. Plant Pathol. **7**: 152.

Morgan, C. V. G. & Anderson, N. H. Notes on parathion-resistant strains

of two phytophagous mites and a predacious mite in British Columbia. Canad. Ent. **90**: 92–97.

Morgan, C. V. G. & Anderson, N. H. (1). Techniques for biological studies of tetranychid mites, especially *Bryobia arborea* M. & A. and *B. praetiosa* Koch (Acarina: Tetranychidae). Canad. Ent. **90**: 212–215 figs. 1–2.

Morgan, C. V. G., see Anderson, N. H. & (1), (2).

Mori, H. The influence of temperature and relative humidity upon the development of the eggs of fruit tree red spider mite *Metatetranychus ulmi* (Koch). (Acarina: Tetranychidae). J. Hokkaido Univ. Fac. Agric. **50** 1957: 363–370. [Not seen.]

Morikawa, K. Cave Pseudoscorpions of Japan (II). Mem. Ehime Univ. (II. Sci.) Biol. **2** 1957: 357–365 figs. 1–3.

Morikawa, K. (1). Maritime Pseudoscorpions from Japan. Mem. Ehime Univ. Sci. Biol. (2) **3**: 5–11 figs. 1–2.

Morrison, C. Habits of the harvestman. Country Life **123**: 1129 2 figs.

Morrison, P. & Rothman, W. H. Agglutination of blood cells in *Limulus polyphemus*. Proc. Soc. exp. Biol. Med. **94** 1957: 21–23 figs. 1–4.

Morrow, M. L., see Traub, R.

Motas, C. Tanasachi, J. & Orghidan, T. Sur un hydracarien nouveau de la sous-famille des Thyasinae (*Placothyopsis fibulata* n.g. n.sp.) et sur l'homologie des formations cuticulaires dans ce groupe. Ark. Zool. Stockh. (2) **11**: 167–185 figs. 1–6.

Motas, C., Tanasachi, J. & Orghidan, T. (1). Hydrachnelles phréaticoles de la R. P. Roumaine. Mém. Soc. zool. tchécosl. **22**: 293–333 figs. 1–93.

Mouchet, J., see Gaud, J. (2).

Mouchet, J., see Morel, P.-C. (1).

Moutia, L. A. Contribution to the study of some phytophagous Acarina and their predators in Mauritius. Bull. ent. Res. **49**: 59–75.

Mrciak, M. Weitere Funde von Milben aus der Ordnung Parasitiformes bei Kleinsäugetieren in der ČSR. Biológia, Bratislava **13**: 311–314. [Russian and German summaries.]

Mrciak, M. (1). Beitrag zur auf kleinen Säugen parasitierenden Milbenfauna (Parasitiformes) im Wildgehege von Topol'čianky. *Biológia, Bratislava* **13** : 530–533. [German summary.]

Mrciak, M. (2). Parasitische Milben (Parasitiformes, Acari) von kleinen Säugetieren der Hohen Tatra. *Zool. Listy* **7** : 65–86 figs. 1–3. [In Czech; German summary].

Mulaik, S. B., see Higgins, H. G. & (1).

Mulla, M. S. Control of mites in laboratory cultures of the eye gnat, *Hippelates collusor* (Townsend). *J. econ. Ent.* **51** : 461–462 fig. 1.

Muller, L. Note complémentaire sur les Lycosides et les familles apparentées dans le Grand-Duché de Luxembourg. *Arch. Inst. Grand-Duc. Luxemb. Sect. Sci. N.S.* **25** : 227–234 figs. 1–6.

Muma, M. H. Predators and parasites of citrus mites in Florida. *Proc. 10th Int. Congr. Ent. Montreal* **4** 1958 : 633–647 figs. 1–14.

Münchberg, P. Erster Beitrag über die an afrikanischen Odonaten Parasitierenden *Arrenurus*-Larven (Hydrachnellae, Acari). *Z. Parasitenk.* **18** : 243–256 figs. 1–9.

Münchberg, P. (1). Eine unbekannte *Megaluracarus*-Art (Hydrachnellae, Acari) aus Belgisch Kongo mit libellenparasitischer Larvenphase. *Zool. Anz.* **160** : 47–54 figs. 1–6.

Münchberg, P. (2). Zur Infektion, Wirtswahl, Zoogeographie und angewandten Bedeutung des Parasitismus der Wassermilben-Larven (Hydrachnellae, Acari) an Luftinsekten. *Zool. Anz.* **161** : 115–125.

Murakami, Y. Food habit of *Thereonema hilgendorfi* Verhoeff (Chilopoda, Scutigeridae). *Zool. Mag., Tokyo* **67** : 138–141. [In Japanese, English summary.]

Murakami, Y. (1). The life history of *Bothropolys asperatus* Koch (Chilopoda, Lithobiidae). *Zool. Mag. Tokyo* **67** : 217–223 figs. 1–2. [In Japanese, English summary.]

Muratov, E. A., see Lototskii, B. V. (1).

Murnaghan, M. F. Neuro-anatomical site in tick paralysis. *Nature, Lond.* **181** : 131.

Murnaghan, M. F. (1). Tick paralysis in the dog: a neurophysiological study. *Proc. 10th Int. Congr. Ent. Montreal* **3** 1956 (1958) : 841–847 figs. 1–4.

Murthy, D. V., see Khan, M. Q.

[**Musatov, V. A.**] [Influence of some preparations with DDT and hexachlorane on some physiological functions of *Rhipicephalus bursa*.] Ninth Conf. parasit. Probl. 1957 : 175. [In Russian.]

[**Musatov, V. A.**] (1). [Repeated feeding of ticks on the same animal as a factor leading to the weakening of a culture of *Rhipicephalus bursa*.] Ninth Conf. parasit. Probl. 1957 : 176. [In Russian.]

Myktytowycz, R. Parasitic habit of the rabbit mite, *Cheyletiella parasitivorax* (Megnin). C.S.I.R.O. Wildl. Res. **2** 1957 : 164.

Myktytowycz, R. & **Hesterman, E. R.** (1). A note on tick infestation of the fairy penguin, *Eudyptula minor* Forster. C.S.I.R.O. Wildl. Res. **2** 1957 : 165–166.

Nagarajan, K. R. A short note on *Paratetranychus oryzae* Hirst—the paddy mite. Madras agric. J. **44** 1957 : 480.

Nakahira, K. Spiders making use of living leaves on their webs and dwellings. *Acta arach. Tokyo* **15** : 17–20 figs. 1–13. [In Japanese.]

Nakana, P. Natural history and distribution of water mites, genus *Unionicola*, in *Anodonta grandis* Say, *Lampsilis siliquoidea* (Barnes), and *Ligurnia nasuta* (Say). *J. Ala. Acad. Sci.* **30** : 8.

Nakao, S.-i. & **Okuma, C.** On the spiders collected in a citrus orchard near Fukuoka. *Jap. J. appl. Ent. Zool.* **2** : 192–197.

Narasimharao, P. L., see Rangarao, P. V.

[**Naumov, R. L.**] [On the slipping down of ticks from the rodents those later being caught in killing traps.] *Zool. Zh.* **37** : 1100–1101. [In Russian, English summary.]

Needham, A. E. Connective-tissue pigment of the centipede, *Lithobius forficatus* (L.). *Nature, Lond.* **181** : 194–195.

Negrea, St. & Tabacaru, I. Espèces nouvelles de polidesmides cavernicoles de la R.P.R. An. Univ. "C. J. Parhon" Bucureşti. Ser. Sti. Nat. **18** : 127-133 figs. 1-3.

Nemenz, H. Beitrag zur Kenntnis der Spinnen-fauna des Seewinkels (Burgenland, Österreich). S.B. öst. Akad. Wiss. Abt. I. **167** : 83-118 figs. 1-3.

[**Netzengovich, M. R.**] [Parasitological survey of town rodents.] Ninth Conf. parasit. Probl. 1957 : 177-178. [In Russian.]

Newcomer, E. J. Some parasites and predators of fruit pests in the Pacific northwest. Pan-Pacific Ent. **34** : 87-91.

Newell, I. M. Specific character and character variants in adults and larvae of the genus *Paratrombium* Bruyant 1910 (Acari, Trombidiidae), with descriptions of two new species from Western North America. Pacif. Sci. **12** : 350-370 figs. 1-77.

Nielsen, G. L. Biology of the McDaniel mite, *Tetranychus mcdanieli* McGregor in Utah. J. econ. Ent. **51** : 588-592.

Niemegeers, K., see Pierquin, L. & (1).

Nikolić, F. Über die geographische Verbreitung und Abstammung der unterirdischen Spinnen in Jugoslawien. Verh. dtsch. zool. Ges. **1957** [1958] : 487-494 figs. 1-6.

Nikolsky, S. N. Sur la signification des animaux domestiques et sauvages dans l'équilibre des tiques *Boophilus calcaratus* Bir. Trud. vsesoyuz. Inst. exp. Vet. Moskva **21** 1957 : 270-274. [In Russian, French résumé.] [Not seen.]

Nishimura, K., see Kamo, H. (1).

Nishio, Y. & Imabayashi, S.-i. The population prevalence of *Panonychus ulmi* Koch affected by some new acaricides in an orchard. Jap. J. appl. Ent. Zool. **2** : 171-178. [In Japanese, English summary.]

[**Nitkina, N. V.**] [On the toxic action of chlortene polychlorpinene and poly-chlorcamphene on *Ixodes ricinus*.] Ninth Conf. parasit. Probl. 1957 : 181-182. [In Russian.]

Nolf, L. O., see Huff, C. G.

Norris, J. D. Observations on the control of mite infestations in stored wheat by *Cheyletus* spp. (Acarina, Cheyletidae). Ann. appl. Biol. **46** : 411-422 fig. 1.

Norris, K. R. Strategic dipping for control of the cattle tick, *Boophilus microplus* (Canestrini) in South Queensland. Aust. J. agric. Res. **8** 1957 : 768-787 figs. 1-9.

Norris, K. R., see Roulston, W. J.

Norris, K. R. & Stone, B. F. (1) Toxaphene-resistant cattle ticks (*Boophilus microplus* (Canestrini) occurring in Queensland. Aust. J. agric. Res. **7** 1956 : 211-226.

Nosek, J., see Mačička, O. (1), (2).

Novozhilov, N. *Polystomurum stomeri*, new genus and species of eurypterid from Devonian, Voronezhsk Province. (Materialui k Osnovam paleontologii.) Paleont. Inst. Akad. Nauk SSSR **2** : 47-50 pl. 2 figs. 1-2. [In Russian.]

Nunes, G., see Baker, E. W. (2).

Nutting, W. B. & Rauch, H. *Demodex criceti* n. sp. (Acarina: Demodicidae) with notes on its biology. J. Parasit. **44** : 328-333 figs. 1-6.

Obata, Y., see Ito, T.

Odhambo, T. R. An association between mites and carpenter-bees. Uganda J. **22** : 164-166.

Ogata, T., see Sasa, M. (2).

Ogawa, K. Chromosomal relation between two allied subspecies of *Scolopendra* (Chilopoda). Jap. J. Genet. **25** 1950 : 221. [In Japanese.] [Abstract.]

Oi, R. Three new species of the six-eyed spider. Acta arach. Tokyo **15** : 31-36 pl. 3. [In Japanese, English summary.]

Okuma, C. Some observations on the habits of *Oedothorax insecticeps* Boesenberg et Strand. (Araneae.) Acta arach. Tokyo **15** : 21-23. [In Japanese.]

Okuma, C., see Nakao, S.-i.

Okumura, G. T., see Strong, R. G.

O'Meara, D. C., see Payne, D. D.

O'Neill, K., see Palmer, A. R.

[**Onufriev, V. P.**] [Comparative study in the toxic action of some preparations on *Ixodes ricinus*, vectors of babesiosis of cattle.] Ninth Conf. parasit. Probl. 1957 : 185-187. [In Russian.]

Oono, M., see Ito, T.

Orghidan, T., see Motas, C. & (1).

[**Orlov, E. I., Budnik, V. S. & Samchik, L. P.**] [Resistance and dying off of *Dermacentor marginatum* in irrigated and non-irrigated areas of Saratov Trans-Volga.] Ninth Conf. parasit. Probl. 1957 : 187-188. [In Russian.]

Ornelas, E. S., see Doro, D. S.

Ortiz, I., see Méndez, A. M. & (1).

Oshima, F., see Hayashi, N.

Ossiannilsson, F. "Celochloral"—a new mounting medium for insects. Ent. Tidskr. 79 : 2-5.

Ostrovskaia, L. I., see Selens, Yu. E.

Oswald, F. H., see Sanderink, J. F. H.

Ovchinnikova, S. L., see Kalita, S. R.

Owen, B. L. Records of nasal mites of the mourning dove. Texas J. Sci. 10 : 447.

Packchanian, A. & Pinkerton, M. Further studies on the effect of simulated altitude on eight additional species of arthropods. Texas Rep. Biol. & Med. 13 1955 : 865-881.

Paic, V., see Jelasic, V. F.

Paik, K.-Y. A list of Chilopoda, Symphila and Diplopoda from Korea. Theses coll. Kyungpook Univ. 2 : 351-369.

Paik, K.-Y. (1). A new spider of the genus *Neoantisteia*. Theses coll. Kyungpook Univ. 3 : 283-292 figs. 1-9.

Palmén, E. The role of European species in the Newfoundland fauna of Chilopods, Diplopods and terrestrial Isopods. Proc. 10th Int. Cong. Ent. Montreal 1 1956 (1958) : 899-902 fig. 1.

Palmer, A. R., Carvalho, J. C. M., Cook, D. R., O'Neill, K., Petrunkevitch, A. & Sailer, R. I. Miocene arthropods from the Mojave Desert, California. Prof. Pap. U.S. geol. Surv. 294-G 1957 : 237-280 pls. 30-34 figs. 83-101.

Pampliglione, S. Il latrodectismo nella zona di Cerveteri. Nuovi Ann. Ig. Microb. 9 : 1-11. [Not seen.]

Papadakis, A. M. & Hourmouziadis, A. N. Human infestation with *Lingutula serrata*, report of a case. Trans. R. Soc. trop. Med. Hyg. 52 : 454-455.

Parameswaran Pillai, P. R. Pests of stored fish and prawns. Bull. res. Inst. Univ. Kerala 5C 3 1957 : 1-79 pls. 1-2 figs. 1-15.

Parr, W. J., see Hussey, N. W.

Parrack, D., see Hoff, C. C.

Parthasarathy, M. D. & Goodnight, C. J. The chromosomal patterns of some Opiliones (Arachnida). Trans. Amer. micr. Soc. 77 : 353-364 figs. 1-23.

Parthasarathy, M. D., see Bai, A. R. K.

Pauller, O. F., see Emelyanova, N. D. (1).

Pavan, M. Studi sugli scorpioni IV. Sulla bifrangenza e sulla fluorescenza dell'epicuticola. Boll. Soc. ent. ital. 88 : 23-26 pls. 1-2, fig. 1.

Pavan, M. (1). Sur la fluorescence des scorpions à la lumière de Wood. Nature, Paris No. 3276 : 150.

Pavlov, P. & Boitschev, D. Über die Morphologie des *Ornithodoros lahorensis* Neumann (Argasidae) aus Mazedonien F.V.P.J. Z. Parasitenk. 18 : 237-242 figs. 1-11.

Pavlovsky, E. N. & Skrinnik, A. N. [Influence of ultra-violet rays on *Ornithodoros papillipes* vectors of tick spirochaetosis. Ninth Conf. parasit. Probl. 1957 : 194. [In Russian.]

Payne, D. D. & O'Meara, D. C. *Sarcopetes scabiei* infestation of a porcupine. J. Wildlife Mgmt. 22 : 321-322 figs. 1-2.

Pchelkina, A. A., see Zhmaeva, Z. M.

Pearce, N. D. F. Acarina. Fauna Hawaiiensis 3 1910 : 702-704. [Omitted from Z.R. 1910.]

Pearson, I. G. "Scaly leg" in poultry. N.S.W. Dept. Agric. Div. Anim. Indust. Poultry Dis. L.I. 1957 : 2p. [Not seen.]

Pelikán, J., see Kratochvil, J.

Perschmann, C., see Schmidt, B.

[**Pervomaisky, G. S., Tshagin, K. P., Boldirev, S. T. & Dyatlov, A. G.**] [On the distribution and biology of *Ornithodoros coniceps*.] Ninth Conf. parasit. Probl. 1957 : 196. [In Russian.]

Pervomaisky, G. S., Tshagin, K. P. & Dyatlov, A. G. (1). A contribution to the biology of *Ornithodoros coniceps* Canestrini, 1890 (Ixodoidea, Acarina). Rev. Ent. URSS 37 : 889-895. [English summary.]

Petriszczewa, P. A. Der Stand einiger wissenschaftlichen Forschungen über die natürlichen Krankheits-Herde des Menschen in U.D.S.S.R. Wiad. Parazytol. Warszawa 1 1955 : 165-177. [In Polish, German summary.]

Petrosian, A. A. [Study of ixodid fauna in Goris district, Armenian SSR.] Trud. Vet. Erivan Armian Nauch.-Issled. Inst. Zhivotn. i Vet. 9 1956 : 157-159. [Russian.] [Not seen.]

Petrunkewitch, A. Amber spiders in European collections. Trans. Conn. Acad. Arts Sci. 41 : 97-400 figs. 1-591.

Petrunkewitch, A., see Palmer, A. R.

[**Petunin, F. A.**] [Ixodidae of Krasnodar Land and measures for control.] Ninth Conf. parasit. Probl. 1957 : 199-200. [In Russian.]

Philip, C. B., see Hughes, L. E.

Philpott, D. E., see Villafranca, G. W. de.

Picco, D. Attività di alcuni prodotti contro le uova ibernanti di *Paratetranychus pilosus* anche in rapporto al sistema di allevamento dei fruttiferi. Notiz. Mal. Piante no. 42 1957 : 65-71.

Pickard, J. G. Observations on myriapods and crustaceans in organic debris. Rep. Bishop's Stortford Coll. nat. Hist. Soc. No. 7 1957 : 21-23.

Pierquin, L. & Niemegeers, K. Répertoire et distribution géographique de tiques au Congo Belge et au Ruanda-Urundi. Bull. agric. Congo belge 48 1957 : 1177-1224.

Pierquin, L. & Niemegeers, K. (1). Tables dichotomiques pour l'identification des tiques adultes du Congo belge et Ruanda-Urundi. Bull. agric. Congo belge 49 : 421-460 pl.

Pietsch, L. R., see Stannard, L. J.

Pikelin, B. S. G. de & Schiapelli, R. D. El género *Tmesiphantes* Simon, 1892 en la Argentina, con dos especies nuevas (Araneae Theraphosidae). Rev. Soc. ent. Argent. 20 (1957) 1958 : 3-7 figs. 1-10.

Pikelin, B. S. G. de, see Schiapelli, R. D. & (1), (2), (3).

Pinkerton, M., see Packchanian, A.

[**Piontkovskaya, S. P. & Korshunova, O. S.**] [New data on natural infection of mite rickettsiosis.] Ninth Conf. parasit. Probl. 1957 : 200-201. [In Russian.]

Piringer, W. Beobachtungen über den Biss der Vogelspinne. Z. Tropenmed. u. Parasit. 9 : 87-89 figs. 1-2.

[**Pirozhnikov, L. P.**] [Remains of shell-scorpion from Mataraksk svitui (Devon North Minusinsk Kotlovin).] Annu. Soc. paléont. russe 16 1957 : 207-215 1 pl. [In Russian.]

Piryani, G. I. On the study of the species *Laelaspis ovatus* Willmann, 1951 (Parasitiformes, Gamasoidea). Rep. Acad. Sci. Ukr. 1958 : 678-682 figs. 1-3.

Pizzi, P. T., Zacarias, S., J. & Schenone, F., H. Estudio hisiopatológico experimental en el envenenamiento por *Loxosceles laeta*. Biologica, Santiago No. 23 1957 : 33-51 figs. 1-16.

[**Pokrovskaya, E. I.**] [Some ecological peculiarities of *Dermacentor marginatus* Sulz.] Ninth Conf. parasit. Probl. 1957 : 201-202. [In Russian.]

[**Polyakov, D. K.**] [Economical losses caused by *Demodex* in leather industry and control measures.] Ninth Conf. parasit. Probl. 1957 : 202-203. [In Russian.]

Polyakova, Z. P. & Volkova, S. E. On the fauna of ixodid ticks in the Voroshilovgrad region. Med. Parazit. Moskva 27 : 225. [In Russian.] [Not seen.]

Ponyi, E. & Ponyi, L. Beiträge zur Kenntnis der Hydracarinen-Fauna der ungarischen Natrongewässer. Arch. Hydrobiol. 54 : 497-505 figs. 1-10.

[**Popov, V. M., Fedorov, J. V., Tynshnyakova, M. K.**] [Contribution to the knowledge of ixodids of Western Siberia, living in burrows.] Ninth Conf. parasit. Probl. 1957 : 204-205. [In Russian.]

Porter, R. J., see Huff, C. G.

[**Pospelova-Shtrom, M. V.**] [Fauna and the geographical distribution of *Ornithodoros* in the world.] Ninth Conf. parasit. Probl. 1957 : 207-208. [In Russian.]

- Post, A., see Kuenen, D. J.**
- Pothelet, P.** A propos de *Scutigera*. Bull. Soc. ent. Nord Fr. No. 97 : 1-2.
- Potts, F. A., see Borradale, L. A.**
- Prasad, S. N. & Prasad, A. R.** An experiment on the chemical control of *Schizotetranychus* sp. (Tetranychidae: Acarina) infesting *Saccharum spontaneum* in Bihar. Indian J. Ent. 19 1957 (1958) : 300-301.
- Pratt, H.** Ectoparasites of birds, bats and rodents and their control. Pest Control 26 : 55-60, 94, 96.
- Pratt, R. M.** Relations between moisture conditions and rust mite infestations. Proc. Fla. Hort. Soc. 70 1957 : 48-51.
- Precht, H. & Freytag, G.** Über Ermüdung und Hemmung angeborener Verhaltensweisen bei Springspinnen (Salticidae). Zugleich ein Beitrag zum Triebproblem. Behaviour 13 : 143-211 figs. 1-24.
- Price, M. A.** A new species of tick from the Trans-Pecos region of Texas. J. Parasit. 44 : 649-651 figs. 1-2.
- Prince, Q. E.** Arachnidism in children (1956). J. Pediat. 49 1956 : 101-108. [Not seen.]
- Pritchard, A. E. & Baker, E. W.** The false spider mites. (Acarina: Tenuipalpidae). Univ. Calif. Publ. Entom. 14 : 175-274 figs. 1-51.
- Pritchard, A. E. & Keifer, H. H. (1).** Two new species of *Bryobia* with a revised key to the genus. (Acarina: Tetranychidae). Ann. ent. Soc. Amer. 51 : 503-506 pl. 1.
- Přívora, M. & Samšiňák, K.** Zástudce čeledě Haemogamasidae jako parazit člověka a několik poznámek k systematici této čeledě. Česk. Parazit. 4 1957 : 267-274 figs. 1-2.
- Přívora, M. & Samšiňák, K. (1).** Milben als Menschenplage. Z. Parasitenk. 18 : 257-269 figs. 1-6.
- Prokopyev, V. N., see Zhovtii, I. F.**
- Przyborowski, T., see Wegner, Z.**
- Puebla, M. M., see Calvo, R. & (1).**
- Putman, W. L.** Mortality of the European red mite (Acarina: Tetranychidae from secretion of peach leaf nectaries. Canad. Ent. 90 : 720.
- Putman, W. L. & Herne, D. C. (1).** Natural control of phytophagous mites (Tetranychidae & Eriophyidae) in Ontario peach orchards. Proc. 10th Int. Cong. Ent. Montreal 4 1956 (1958) : 667-673.
- Puttarudriah, M.** Millipedes damage crops. Mysore agric. J. 33 : 130-132 3 figs.
- Puttarudriah, M. & Channa Basavanna, G. P. (1).** An eriophyid mite as a new pest of garlic in Mysore. FAO. Plant. Protect. Bull. 6 : 123-124 fig. 1.
- Puttarudriah, M., see Channa Basavanna, G. P.**
- Pyshny, A. M., see Selens, Yu. E.**
- Rabaey, M. & Verriest, G.** Etude comparative de l'hémolymphe de 33 espèces d'araignées par micro-électrophorèse sur gélose. Intérêt systématique de cette méthode. Ann. Soc. zool. Belg. 88 1957-58 : 373-383 figs. 1-2 Tabl. 1.
- Rabaey, M., see Rasmont, R.**
- Rabeler, W., see Kuhk, R.**
- Rafalski, J.** Opis *Siro carpaticus* sp. nov. wraz z uwagami o morfologii i systematyce Cyphophthalmi (Opiliones). Sprawozd. Pozn. Tow. Prazyj. Nauk za I: II kwartał 1955 (1956) : 49-52. [Preliminary report.]
- Rafalski, J. (1).** A description of *Siro carpaticus* sp. n. with remarks on the morphology and systematics of the Cyphophthalmi (Opiliones). Acta zool. Cracov. 2 : 521-556 figs. 1-21.
- Rafalski, J. (2).** Arachnidan fauna of the Wolin National Park as hitherto investigated. Ochr. Przyr. 21 1953 : 217-248 figs. 152-169. [In Polish, English summary.]
- Rageau, J. & Vervent, G.** Présence d'Ornithodores (Acariens, Argasidae) aux îles Chesterfield (Pacifique Sud). Bull. Soc. Path. exot. 51 : 238-244 figs. 1-4 maps 1-2.
- Raithel, O.** Milbenbefall an Neubauten. Prakt. Schädlingsbekämpfer 9 1957 : 106-107. [Not seen.]
- Rajski, A.** Two new species of moss mites (Acari, Oribatei) from Poland. Ann. Zool. Warszawa 17 : 429-439 figs. 1-8.
- Rajski, A. (1).** Observations on the daily migrations of moss-mites (Oribatei, Acari). Wiad. parazytol. 4 : 489-491. [English translation.]

Ramadier, P., see Chaboussou, F. (2).

Ramazzotti, G. *Echiniscus merokensis* con spine sulla piastra scapolare e variabilità di questa specie, anche nei confronti de *E. quadrispinosus f. cribrosa* (Tardigrada). Atti Soc. Ital. Sci. nat. **97** : 58–64 figs. 1–2.

Ramazzotti, G. (1). Nuove Tabelle di determinazione dei generi *Macrobiotus* e *Hypsibius* (Tardigradi). Mem. Ist. Ital. Idriobiol. **10** : 69–120.

Ramazzotti, G. (2). Note sulle biocenosi dei Muschi. Mem. Ist. Ital. Idriobiol. **10** : 153–206.

Ramsay, G. W. A new species of the gall-mite (Acarina: Eriophyidae) and an account of its life cycle. Trans. roy. Soc. N.Z. **85** : 459–464 figs. 1–14.

Rangarao, P. V., Narasimharao, P. L. & Tirumala Rao, V. Association of pinkish brown blotch of citrus fruits with an eriophyid mite (*Phyllocoptes olevorius* Ashmead). Indian J. Ent. **19** 1957 : 146–147.

Rao, S. R. & Hiregander, L. S. A new species of trombiculid mite found on rat snake from Bombay. Indian J. Ent. **17** 1955 : 210–212 figs. 1–3. [See Z.R. 1957 : 38.]

Raper, J. R., Baxter, M. G. & Krongelb, G. S. The number and distribution of incompatibility factors of *Schizophyllum*. Genetics **42** 1957 : 390. [Abstract.]

Rapsch, I., see Berndt, R.

Rasmont, R. & Rabaey, M. Comparaison par micro-électrophorèse, de la composition protidique de l'hémolymphé et du contenu des glandes coxaux du scorpion *Euscorpius carpathicus* L. C.R. Soc. Biol. Paris **152** : 1020–1022 fig.

Rasmont, R., Vandermeersche, G. & Castiaux, P. (1). Ultra-structure of the coxal glands of the scorpion. Nature, Lond. **182** : 328–329 fig. 1.

Ratcliff, F., Miller, W. H. & Hartline, H. K. Neural interaction in the eye and the integration of receptor activity. Ann. N.Y. Acad. Sci. **74** : 210–222 figs. 1–9.

Ratcliff, F., see Hartline, H. K.

Rauch, H., see Nutting, W. B.

Rauchback, C., see Feider, Z. (3).

[Razumova, I. N.] [Parasites of *Prometheomys schaposchnikovi*.] Parasit. Sborn. **17** 1957 229–236. [In Russian.]

Read, C. P., see Huff, C. G.

Reed, H. B., jr. A study of dog carcass communities in Tennessee, with special reference to the insects. Amer. midl. Nat. **59** : 213–245.

Reeves, W. C., see Furman, D. P.

Reich, H. Die Problematik der Spinnenmilbenbekämpfung. Anz. Schädlingsk. **31** : 41.

Reimoser, E., see Beier, M. (5).

Reitblatt, A. A new species of gamasid mite of the genus *Olopachys* (Parasitiformes, Gamasoidea). Mag. Parasit. Leningrad **18** : 180–182 figs. 1–7. [In Russian, English summary.]

Rementzova, M. M., see Khrushcheva, N. F.

Rempel, J. G., see Whitehead, W. F.

Remy, P. A. Pauropodes récoltés à Rufisque (Sénégal) par M. Lucien Declotre. Bull. Inst. franç. Afr. N. **19A** 1957 : 1173–1175 figs. 1–3.

Remy, P. A. (1). Pauropodes de Gambie. Bull. Mus. Hist. nat. Paris (2) **30** : 436–442 figs. 1–2.

Remy, P. A. (2). Description d'un nouveau Pauropus d'Argentine. Bull. Soc. Sci. Nancy N.S. **17** : 23–27 figs. 1–2.

Remy, P. A. (3). Palpigrades de l'île Maurice. Mauritius Inst. Bull. **5** : 94–102 fig. 1.

Remy, P. A. & Balland, A.-M. (4). Pauropodes de France méridionale. Rev. franç. Ent. **24** (1957) 1958 : 396–409 figs. 1–6.

Renoux, G. & Juminer, B. Préparation et titrage du sérum antiscorpionique. Arch. Inst. Pasteur Tunis **35** : 365–376.

Rerberg, M. S. Phenology of *Ixodes persulcatus* in the State Reservation Stolbyi near Krasnoyarsk. Med. Parasit., Moskva **27** : 208–210 figs. 1–2. [In Russian.] [Not seen.]

Ressl, F. & Beier, M. Zur Ökologie, Biologie und Phänologie der heimischen Pseudoscorpione. Zool. Jahrb. (Syst.) **86** : 1–26 figs. 1–2.

Reynolds, H. T., see Andres, L. A.

Reznik, P. A. [The influence of geographical factors on animal colouring.] Materiały Poznań. Fauny i Flory SSSR. Otdel. Zool. **34** 1956 : 107-112. [In Russian.]

[**Reznik, P. A.**] (1). [A new species of ticks *Ixodes gussevi*, sp. n. from Azerbaijan.] Zool. Zh. **37** : 457-458 figs. 1-7. [In Russian, English summary.]

Ribaut, H. Un nouveau genre et une nouvelle espèce de polydesmides des grottes du département de l'Ardèche. Notes biospéol. **9** 1954 : 133-135 figs. 1-5.

Ribaut, H. (1). Un nouveau genre de gloméride cavernicole. Notes biospéol. **9** 1954 : 137-140.

Rich, G. B. The ear tick, *Otobius megnini* (Dugès) (Acarina: Argasidae), and its record in British Columbia. Canad. J. comp. Med. **21** 1957 : 415-418.

Richards, A. G. Studies on arthropod cuticle. XII. Ash analyses and microincineration. J. Histochem. Cytochem. **4** 1956 : 140-152. [Not seen.]

Richards, A. G., see Huff, C. G.

Rieder, H. P. Methodische und statistische Beobachtungen zum Spinnentest. Verh. naturf. Ges. Basel **69** : 49-65 figs. 1-5.

Riehl, L. A., LaDue, J. P. & Rodriguez, J. L. jr. Evaluation of representative California spray oils against citrus red mite and California red scale. J. econ. Ent. **51** : 193-195.

Riehl, L. A., see Rodriguez, J. L. jr.

Riek, R. F. Studies on the reactions of animals to infestation with ticks. II. Tick toxins. Aust. J. agric. Res. **8** 1957 : 215-223 pl. 1.

Riek, R. F. (1). Studies on the reactions of animals to infestation with ticks. III. The reactions of laboratory animals to repeated sublethal doses of egg extracts of *Haemaphysalis bispinosa* Neumann. Aust. J. agric. Res. **9** : 830-841 pls. 1-2.

Riker, A. J., see Huff, C. G.

Ringuelet, R. A. Biogeografía de los aracnídos Argentinos del orden Opiliones. Contr. Cient. Univ. Buenos Aires, Zool. **1** 1957 : 1-33.

Ringuelet, R. A. (1). Noticula sobre los Opiliones del género *Sphaleropachylus*-su amplitud y sinonimia. Rev. Soc. ent. Argent. **19** (1956) 1957 : 49-50 fig. 1.

Rivard, I. A technique for rearing tyroglyphid mites on mould cultures. Canad. Ent. **90** : 146-147.

Rivard, I. (1). Influence of humidity on mortality and rate of development of immature stages of the grain-infesting mite *Tyrophagus castellani* (Hirst) (Acarina: Acaridae) reared on mould cultures. Canad. Ent. **90** : 721-724.

Rivosecchi, L. & Bettini, S. Contributo alla conoscenza dei predatori delle ova di *Latrodectus tredecimguttatus* Rossi. Riv. Parassit. **19** : 249-266 figs. 1-7.

Rodil, C. T., see Vogelsang, E. G.

Rodriguez, J. L. jr. & Riehl, L. A. Malathion for control of chicken mites on hens in wire cages. J. econ. Ent. **51** : 158-160 figs. 1-2.

Rodriguez, J. L., see Riehl, L. A.

Roewer, C. F. Cavernicole Arachniden aus Sardinien. Notes biospéol. **8** 1953 : 39-49 figs. 1-6.

Rohlf, F. J. A new technique in the preserving of soft-bodied insects and spiders. Turtox News **35** 1957 : 226-229 figs. 1-4.

Rosales, S., see Schenone, H.

Rosario, M. S. del & Sill, W. H. jr. A method of rearing large colonies of an eriophyid mite, *Aceria tulipae* (Keifer), in pure culture from single eggs or adults. J. econ. Ent. **51** : 303-306 figs. 1-2.

Roșca, D. I. L'action physiologique du venin d'*Euscorpius carpathicus* Lin. VIII. Sur la vasomotricité du rein et du débit urinaire du chien. Stud. Cercet. Biol. Bucureşti **8** : 375-389 figs. 1-10. [French etc. summaries.]

Roșca, D. I. (1). L'action physiologique du venin d'*Euscorpius carpathicus* Lin. Note IX. L'action hypotensive et son mécanisme de production. Stud. Cercet. Biol. Bucureşti **8** : 391-401 figs. 1-6. [French summary.]

Rosický, B. Ein Fall von natürlichem Schutz des Wirtes von dem Befallen durch Ectoparasiten. Česk. parazit. **5** : 165-168. [In Czech, German summary.]

Rothman, W. H., *see* Morrison, P.

Rouiller, C., *see* Andre, J. (2).

Roulston, W. J., **Norris**, K. R., **Schnitzerling**, H. J. & **Meyers**, R. A. J. Comparison of two formulations of DDT as dipping fluids for the control of the cattle tick. *Aust. J. agric. Res.* **9** : 587-598.

Ruffié, J., *see* Meira, M. T. V. de.

Rybicka-Stryjecka, Z. A case of parasitism on a human being of the arachnid of the genus *Glyciphagus* (De Geer, 1808). *Wiad. Parazyty.* **4** : 569. [English translation.]

Ryke, P. A. J. On the identity of *Gamasellus falciger* (G. & R. Can.), the type species of the genus. (Acarina: Mesostigmata). *Ent. mon. Mag.* **94** : 121-124 figs. 1-13.

Ryke, P. A. J. (1). South African mites of the super-family Uropodoidea (Acarina). *Proc. zool. Soc. Lond.*, **130** : 217-230 figs. 1-39.

Ryke, P. A. J. & **Meyer**, M. K. P. (2). Some parasitoid mites (Mesostigmata: Acarina) associated with Coleoptera in the Western Transvaal. *J. ent. Soc. S. Afr.* **21** : 139-161 figs. 1-60.

Sachs, H. G. Versuche zur Züchtung der Trachenmilbe *Acarapis woodi woodi*. *Zeitschr. Bienenforsch.* **4** : 107-113. [Not seen.]

Sahli, F. Sur une anomalie sexuelle chez le diplopode *Schizophyllum sabulosum* L. *Bull. Soc. zool. Fr.* **83** : 211-213 figs. 1-6.

Sahli, F. (1). Données sur le développement post-embryonnaire du diplopode *Tachypodoiulus albipes* C. L. Koch. *C.R. Acad. Sci. Paris* **246** : 2037-2039.

Said, M. S. Preliminary note on ectoparasites from Wadi el Natroun farm animals. *J. Egypt. vet. med. Assoc.* : 21-23.

Sailer, R. I., *see* Palmer, A. R.

Saito, Y., *see* Asanuma, K. (5).

Sakurai, N., *see* Asanuma, K. (6).

Salisbury, L. E., *see* Theiler, G. & (1).

[**Samchik**, L. P.] [Influence of some ecological factors on the development of *Dermacentor marginatus* Sulz. under

conditions of irrigated and non-irrigated land in Trans-Volga territory.] Ninth Conf. parasit. Probl. 1957 : 223-224. [In Russian.]

Samchik, L. P., *see* Orlov, E. I.

Samšiňák, K. Einige neue Acariden-Deutonymphen als Commensalen der Insekten (Acari). *Acta Soc. ent. Čech.* **55** : 289-295 figs. 1-4.

Samšiňák, K. (1). Roztoči ze slunečnicových semen (Acari). [Die Milben der Sonnenblumenkerne.] *Česk. Parasit.* **5** : 185-198 figs. 1-7.

Samšiňák, K., *see* Privora, M. & (1).

Sanchez, S. Cellules neurosécrétrices et organes infracérébraux de *Peripatopsis moseleyi* Wood (Onychophores) et neurosécrétion chez *Nymphon gracile* Leach (Pycnogonides). *Arch. Zool. exp. gén.* **96** Notes et Rev. (2) : 57-62 fig.

Sanderink, J. F. H. & **Oswald**, F. H. Feline scabies in man. *Docum. Med. geogr. trop.* **9** : 255-258 figs. 1-4.

Sanger, V. L. ET-57 (Trolene) for demodectic mange—a case report. *J. Amer. vet. med. Assoc.* **132** : 56-57.

Sankey, J. *Scytodes thoracica* Latr. (Araneida, Scytodidae) in Surrey. *Ent. mon. Mag.* **94** : 226.

Sankey, J. H. P., *see* Cloudsley-Thompson, J. L. (4).

Sardar, S. Acarine disease in the Indian honey-bee, *Apis indica* F. *Indian J. Ent.* **18** 1956 (1957) : 458-459.

Sasa, M., **Asanuma**, K., **Hayashi**, S., **Suzuki**, T., **Miura**, A., **Kano**, R. & **Kumada**, N. Study on tsutsugamushi 42. Species of trombiculid mites from Izu Islands. Studies on Shichito Fever 1952 part 2 : 59-64. [In Japanese.]

Sasa, M. & **Kano**, R. (1). [Study of tsutsugamushi 1. *Trombicula wachtmanni* discovered in Japan.] *Tokyo Izi Sinsi* (Tokyo Med. J.) **67** (4) 1950 : 9-10. [Not seen.]

Sasa, M., **Kano**, R. & **Ogata**, T. (2). [Study of tsutsugamushi. 28. On trombiculid mites collected from birds in Tokyo area.] *Tokyo Izi Sinsi* (Tokyo Med. J.) **69** 1952 : 557-559. [Not seen.]

Sawaya, P., *see* Mendes, E. G.

Schad, G. A. First report of *Ornithodoros (Otoebius) megnini* from the prong-horn antelope, *Antilocapra americana*. J. Parasit. **44** : 514.

Schaffer, M. H., **Baker**, N. F. & **Kennedy**, P. C. Parasitism by *Cheyletiella parasitivorax*. A case report of the infestation in a female dog and its litter. Cornell Vet. **48** : 440-447 figs. 1-5.

Scheinblum, T. S., see Villafranca, G. W. de.

Scheller, U. Zoologisch-systematische Ergebnisse der Studienreise von H. Janetschek und W. Steiner in die spanische Sierra Nevada 1954. VIII. Symphyla. S.B. öst. Akad. Wiss. Abt. I **166** 1957 : 303-305.

Scheminzky, F. & **Stipperger**, H. Über die Fluoreszenz der Eihäute beim Weberknecht *Gyas annulatus*. S.B. öst. Akad. Wiss. Abt. I. **167** : 563-568 pl. 1, fig. 2.

Schenone, H., **Rosales**, S. & **Garcia**, E. M. Caso de loxoscelismo cutáneo visceral en Mendoza. Bol. chilen. Parasit. **12** 1957 : 56-59. [English summary.]

Schenone, F., H., see Pizzi, P., T.

Schiapelli, R. D. & **Pikelin**, B. S. G. de. La familia "Senoculidae" (Arañae) en la Argentina. Physis, B. Aires **21** 60 : 9-13.

Schiapelli, R. D. & **Pikelin**, B. S. G. de (1). El género *Pselligmus* Simon, 1872 en la Argentina (Araneae-Ctenizidae). Physis, B. Aires **21** : 124-129 figs. 1-4.

Schiapelli, R. D. & **Pikelin**, B. S. G. de (2). Aranas Argentinas III. Aranas de Misiones. Rev. Mus. argent. Cienc. nat. (Zool.) **3** 1957 [1958] : 187-231 figs. 1-27.

Schiapelli, R. D. & **Pikelin**, B. S. G. de (3). La familia Dinopidae en la Argentina y una nueva especie del género *Dinopis* MacLeay, 1839. Rev. Soc. ent. Argent. **19** (1956) 1957 : 63-68 figs. 1-4.

Schiapelli, R. D., see **Pikelin**, B. S. G. de.

Schimitschek, E. Max Sellnick zum 50 Doktorjubiläum. Anz. Schädlingsk. **31** : 108-109 photo.

Schmidt, B. & **Perschmann**, C. Über die Eignung der Spinne *Araneus foliatus* Fourcroy zur Durchführung von Routineuntersuchungen neurotroper Substanzen. Z. vergl. Physiol. **41** : 364-372 figs. 1-15.

Schmitz, G. L'acariose du cotonnier. Bull. agric. Congo belge **47** 1956 : 329-339.

Schnitzerling, H. J., see **Roulston**, W. J.

Schubart, O. Sobre alguns Diplopoda de Mato Grosso e Goias, Brasil e a família Spirostreptidae. Arq. Mus. nac. Rio de J. **46** : 203-253 figs. 1-31.

Schubart, O. (1). Sobre alguns Diplopoda do Estado do Para (Brasil), colecionados par Lauro Travassos, Gertrud Rita Kloss e Fernando D. A. Pires. Bol. Mus. Goeldi (Zool.) No. 16 : 1-30 pls. 1-2.

Schubart, O. (2). Diplopoda II: Oniscomorpha. Hanstrom et al. South African Animal Life **5** Stockholm : 41-108 figs. 1-77.

Schubart, O. (3). Deux nouveaux diplopodes cavernicoles du département de la Drôme. (Diplopoda, Ascospomphora). Notes biospéol. **13** : 35-49 figs. 1-7.

Schubart, O. (4). "Leptodesmidae" Brasileiras VI. Espécies novas do estado do Rio Grande do Sul. (Diplopoda, Proterospermophora). Rev. bras. Biol. **18** : 23-32 figs. 1-4.

Schulman, R. E., see **Lutta**, A. S.

Schultz, J. T. Toxicity of some organic acaricides to mites infesting apples and chrysanthemums. Iowa State Coll. J. Sci. **32** 1957 : 263. [Abstract.]

Schulze, P. Das Geruchsorgan der Zecken. Untersuchungen über die Abwandlungen eines Sinnesorgans und seine Stammesgeschichtliche Bedeutung. Z. Morph. Ökol. Tiere **37** 1941 : 491-504 figs. 1-90. [See Z.R. 1945 No. 716.]

Schuster, R. Beitrag zur Kenntnis der Milbenfauna (Oribatei) in pannonicischen Trockenböden. S.B. öst. Akad. Wiss. Abt. I. **167** : 221-235 figs. 1-4.

Schuster, R. (1). Neue terrestrische Milben aus dem mediterranen Litoral. Vie et Milieu **9** : 88-109 figs. 1-16.

- Schwarzbach, M.** Zum Vorkommen von Eurypteriden im oberschlesischen Karbon. Neues Jb. Geol. Paläont B 957 : 112-114 figs.
- Schwoerbel, J.** Neue Wassermilben Acari, Hydrachnellae) aus dem Schwarzwald. Zool. Anz. 160 : 193-204 figs. 1-5.
- Scott, H.** *Humerobates rostrolamellatus* Grandjean, an oribatid mite, invading a house. Ent. mon. Mag. 94 : 9-70.
- Scott, H. (1).** Migrant millipedes and entipedes entering houses 1953-1957. Ent. mon. Mag. 94 : 73-77.
- Scott, H. (2).** Migrant millipedes entering houses, 1958. Ent. mon. Mag. 4 : 252 256 pl. 23.
- Scott, H. (3).** Reappearance of *Humerobates rostrolamellatus* Grandjean (Acarina, Oribatidae). Ent. mon. Mag. 4 : 278.
- Scott, H. (4).** Biogeographical research on High Simien (Northern Ethiopia), 1952-53. Proc. linn. Soc. Lond. 170 : -91 17 pls. 6 figs. map.
- Scott, H. G.** Control of mites on amsters. J. econ. Ent. 51 : 412-413.
- Scott, J. A.** Maintenance of tropical at mites and the quantitative transmission of cotton rat filariae. Proc. 6th Int. Cong. Ent. Montreal 3 1956 (1958) : 507-509.
- Scott, J. A., see Zein-Eldin, E. A.**
- Seganti, L., see Filippioni, A. (1).**
- Séguy, E.** La faune des lacs, des tangs et des marais de l'Europe occidentale. Paris (P. Lechevalier) 1957 Ed. 2 : x + 549 pp. 32 col. pls. 72 figs.
- Séguy, E., see Germaine, L. A. P.**
- Sekiguchi, K.** Reduplication in spider eggs produced by centrifugation. Sci. Rep. Tokyo Kyoiku Daig. 8B 1957 : 27-280 figs. 1-36.
- Selens, Yu. E., Pyshny, A. M. & Dstrovskaia, L. I.** The use of BCH in the control of *Latrodectus tredecimtubatus* Rossi. Med. Parazit. Moskva 7 : 105-106. [In Russian.]
- Sellnick, M.** Die Familie Zerconidae Berlese. Acta zool., Budapest 3 : 313-368 figs. 1-58.
- Sellnick, M. (1).** Fauna di Romagna (Collezione Zangheri) neue Zercon-Arten. Boll. Soc. ent. ital. 88 : 115-118 figs. 1-2.
- Sellnick, M. (2).** Eine neue Milbe aus Fliedermauskot in einer Höhle Südafrikas (Acarina: Uropodina). J. ent. Soc. S. Afr. 21 : 274-285 figs. 1-14.
- Sellnick, M. (3).** Remarks on the genus *Zercon* C. L. Koch, with descriptions of two new species of the genus *Prozercon* Sellnick (Acarina, Zerconidae). J. Kansas ent. Soc. 31 : 125-128 figs. 1-5.
- Sellnick, M. (4).** Milben aus landwirtschaftlichen Betrieben Nordschwediens. Medd. Vaxtskyddsanst. Stockh. 11 71 : 9-59 figs. 1-45.
- Sellnick, M., see Schimitschek, E.**
- Semel, M.** Tests for the control of *Tetranychus telarius* (L.) on lima beans. J. econ. Ent. 51 : 735-737.
- Semenov, P. V.** Tick fauna in the Maiminsk nidus of spring-summer (tick-borne) encephalitis. Med. Parazit. Moskva 27 p. 222. [In Russian.] [Not seen.]
- Sengbusch, H. G.** Zuchversuche mit Oribatiden (Acarina.) Naturwissenschaften 45 : 498-499.
- Seyd, E. L.** An oribatid mite new to the British fauna. Naturalist No. 864 : 3-4.
- Shafrir, E., see Weissmann, A.**
- [Shaldibina, E. S.]** [The role of Oribatei in epizootiology of moniezirosis in various environments.] Ninth Conf. parasit. Probl. 1957 : 271-272. [In Russian.]
- Shamrai, A. F., see Maslov, A. V.**
- Sharma, G. P. & Gupta, B. L.** Cytoplasmic inclusions of the male germ cells of ticks as studied under the phase-contrast and interference microscopes. Cytologia, Tokyo 22 1957 : 452-467 figs. 1-29.
- Sharma, G. P. & Singh, S. (1).** Cytological studies on the Indian spiders. I. Chromosome complement and male meiosis in *Stegodyphus specificus*. Res. Bull. Panjab Univ. No. 120 1957 : 389-393 pl. 1.

Sheals, J. G. A revision of the British species of *Rhodacarus* Oudemans and *Rhodacarellus* Willmann (Acarina, Rhodacaridae). Ann. Mag. nat. Hist., Ser. 13 1 : 298-304 figs. 1-14.

Shechter, F. R., see Cahn, M. M.

Shevchenko, V. The regularity of distribution of injuries on leaves of plants caused by gall-mites. Mag. Parasit. 18 : 129-162 figs. 1-14. [In Russian, English summary.]

[**Shevchenko, V. G.**] (1). [The life-cycle and relationship of Tetrapodili to trees and shrubs.] Ninth Conf. parasit. Probl. 1957 : 274-275. [In Russian.]

[**Shilova, S. A., Troitzky, V. B. & Drozdova, Y. V.**] [On the penetration of *Ixodes persulcatus* into the inhabited area in the foci of mite encephalitis.] Ninth Conf. parasit. Probl. 1957 : 276-277. [In Russian.]

Shilova, S. A., Troitsky, V. B., Malkov, G. B. and Belkovich, V. M. (1). The role of the mobility of forest mouse-like rodents in the distribution of *Ixodes persulcatus* P. Sch. in the nidi of spring summer encephalitis. Zool. Zh. 37 : 931-938 figs. 1-6. [In Russian, English summary.]

Shinohara, K., see Takashima, H. (1).

Shirodkar, M. V., Bang, F. B. & Warwick, A. Antibacterial action of *Limulus* blood in an *in vitro* system. Bull. Biol. Woods Hole 115 : 341.

Shluger, E. G. & Sosnina, E. F. On finding a species new for the fauna of the USSR—*Gahrliepia (Schoengastiella) ligula* (Radford, 1946) (Acariformes, Gahrliepiinae). Zool. Zh. 37 : 942-945 fig. [In Russian, English summary.]

Shrivastava, S. C. Studies on the cuticle of some Indian scorpions sulphur linkage and purines. Proc. nat. Acad. Sci. India Sect. B. 27 1957 : 74-77. [Not seen.]

Shrivastava, S. C., see Lal, M. B.

Shulov, A. Observations on the mating habits of two scorpions, *Leiurus quinquestriatus* H. & E. and *Buthotus judaicus* E. S. Proc. 10th Int. Cong. Ent. Montreal 1 1956 (1958) : 877-880 figs. 1-4.

Shulov, A. & Amitai, P. (1). On mating habits of three scorpions: *Leiurus quinquestriatus* H. et E.,

Buthotus judaicus E. Sim and *Nebo hierichonticus* E. Sim. Arch. Inst. Pasteur Alger 36 : 351-369 pls. 1-2 figs. 1-10.

Shulov, A., see Weissmann, A.

Shvetzova, K. D., see Gladikh, S. G.

[**Sichevskaya, V. I.**] [Biology of spiders in Central Asia.] Trud. Inst. Zool. Parazit. Stalinabad 21 1954 69-74 figs. 1-3. [In Russian.]

Sill, W. H. jr., see Rosario, M. S. del.

Singh, S., see Sharma, G. P. (1).

Sitnikova, L. On the fauna of Oribatei (Acariformes) of Riazan Province. Mag. Parasit. Leningrad. 18 : 163-175. [In Russian, English summary.]

[**Sitnikova, L. G.**] (1). [Life cycles of some Oribatei and the methods of their study.] Ninth Conf. parasit. Probl. 1957 : 231-232. [In Russian.]

Skierska, B., see Lachmajer, J.

Skrinnik, A. & Filippova, N. A contribution to the studies of argasid ticks—vectors of certain spirochaetae in Transcaucasia. Mag. Parasit. Leningrad 18 : 5-9. [In Russian, English summary.]

Skrinnik, A. N. & Filippova, N. A. (1). [The study of acarine vectors of spirochaetae in Transcaucasus.] Ninth Conf. parasit. Probl. 1957 : 232-233. [In Russian.]

Skrinnik, A. N., see Pavlovsky, E. N.

Slusarski, W., see Grabda, E.

Smith, F. F. A résumé of spider mite control in greenhouses. Florists' Exchange 128 1957 : 10, 36-40. [Not seen.]

Smith, F. F., see McClellan, W. D.

Smith, W. W. & Love, G. J. Ectoparasite populations and prevalence of murine typhus antibodies in cotton rats of southwest Georgia during wet and dry periods. Trans. Amer. micr. Soc. 77 : 48-56.

Snetsinger, R., see English, L. L.

Snodgrass, R. E. Evolution of arthropod mechanisms. Smithson. misc. Coll. 138 : 1-77 figs. 1-24.

Snow, W. E. Stratification of arthropods in a wet stump cavity. Ecology 39 : 83-88 figs 1-2.

Soares de Gouveia, A. J., see Amaro, J. P.

Sodeman, W. A., Wingo, C. W., Atkins, J. A. & Flynn, J. E. Brown spider bites in the Midwest. [Transactions.] Amer. J. trop. Med. Hyg. 7 : 250.

Sodeman, W. A., see Atkins, J. A.

Sokolov, I. I. Cytological studies of the development of the male germ cells in *Ornithodoros papillipes* Bir. (Acari, Ixodoidea). Rev. ent. URSS 37 : 260-281 figs. 1-42. [In Russian, English summary.]

[**Sokolov, I. I.**] (1). [To the knowledge of Hydroacarology.] Ninth Conf. parasit. Probl. 1957 234-235. [In Russian.]

Sosnina, E. F. The part played by small mammals—inhabitants of pastures and farms—in the development and spread of ixodids—vectors of haemosporidia infestation of agricultural animals in Tadzhikistan. Izv. Akad. Nauk. Tadzhik. SSR. Otd. Estest. Nauk 1956 (14) : 106-114. [In Russian.] [Not seen.]

[**Sosnina, E. F.**] (1). [Material to ecology of the larvae of red mites (Trombiculidae) parasites of rodents in Tadzhikistan.] Ninth Conf. parasit. Probl. 1957 : 236. [In Russian.]

[**Sosnina, E. F.**] (2). [On *Ixodes trianguliceps* Bir. in Tadzhikistan.] Trud. Inst. Zool. Parazit. Stalinabad 21 1954 : 65-68 figs. 1-2. [In Russian.]

Sosnina, E. F., see Lototzkii, B. V. (1) (2).

Sosnina, E. F., see Shluger, E. G.

Sotelo, J. R. & Trujillo-Cenóz, O. Submicroscopic structure of meiotic chromosomes during prophase. Exper. Cell Res. 14 : 1-8 figs. 1-9.

Sousa, H. T. de, see Meira, M. T. V. de.

[**Spasski, S. A.**] [*Dyctina uncinata* Thor. (Aranei, Dyctinidae) Biological essay.] Zool. Zh. 37 : 1006-1011 figs. 1-3. [In Russian, English summary.]

Stäger, R. Die Baukunst der Insekten. (Kummerly & Frey) Bern 1957 : 1-195 pls. 1-36.

Stahnke, H. L. Scorpions. Poisonous animals Pres. Lab. Arizona St. Coll. Ed. 2 1956 : 1-37 figs. 1-13.

Stahnke, H. L. (1). The treatment of venomous bites and stings. Poisonous animals Pres. Lab., Arizona St. Coll. : 1-51 figs. 1-14.

Stahnke, H. L. & Stahnke, J. (2). The treatment of scorpion sting. Arizona Med. 14 1957 : 576-580 figs.

Stampa, S. & Toit, R. du. Paralysis of stock due to the Karoo paralysis tick (*Ixodes rubicundus*, Neum.). S. Afr. J. Sci. 54 : 241-246.

Stampa, S., see Toit R. du.

Stannard, L. J., jr. & Pietsch, L. R. Ectoparasites of the cottontail rabbit in Lee County, Northern Illinois. Biol. Notes, Urbana No. 38 : 1-18 figs. 1-14.

Starkoff, O. Ixodoidea d'Italia, studio monografico. Il Pensiero Scientifico, Roma pp. 384 figs. 60.

Stauber, L. A., see Huff, C. G.

Stepanova, N. I., see Markov, A. A

Stephan, S., Kaschula, V., Canham, A. Respiratory acariasis of canaries. J. S. Afr. vet. med. Assoc. 21 1950 : 103-107.

Steshenko, V. M., see Dubinin, V. B. (3).

Stevenson, H. A., see Brookes, R. F. & (1).

Stipperger, H., see Scheminsky, F.

Stock, J. H. Pycnogonida from the Mediterranean coast of Israel. Bull. res. Coun. Israel 7B : 137-142 figs. 1-2.

Stock, J. H. (1). The Pycnogonida of the Erythrean and of the Mediterranean coasts of Israel. Bull. Sea Fish. Res. Sta. Israel No. 16 : 3-5.

Stone, B. F. & Meyers, R. A. J. Dieldrin-resistant cattle ticks, *Boophilus microplus* (Canestrini), in Queensland. Aust. J. agric. Res. 8 1957 : 312-317.

Stone, B. F., see Norris, K. R. (1).

Strandtmann, R. W. Host specificity of bird nasal mites (Rhinonyssidae) is a function of the gregariousness of the host. Proc. 10th Int. Cong. Ent. Montreal 1 1956 (1958) : 909-911.

Strandtmann, R. W. & Wharton, G. W. (1). Manual of mesostigmatid mites parasitic on vertebrates. Inst. Acarology, Maryland, U.S.A. Contribution No. 4 : xi + 330 pls. 1-69.

Strandtmann, R. W., see Tibbets, T.

Strasser, K. An merkungen zu Attems "Myriapodenfauna der Ostalpen" Ann. naturh. Mus. Wien 62 : 254-258.

Strasser, K. (1). Ein neuer Höhlen-Diplopode von Piemont. Ann. naturh. Mus. Wien **62** : 259–262 figs. 1–6.

Strong, R. G. & Okumura, G. T. Insects and mites associated with stored foods and seeds in California. Bull. Calif. Dep. Agric. **47** : 233–249 9 figs.

Su, K.-c., see Hsu, P. K.

Suarez, J. R. E., Albaca, E. & Fasciolo, J. C. Mecanismo de la accion hipertensora del veneno de la araña *Latrodectus mactans*. Cuarto Congr. Interamer. Cardiol. B. Aires 1952 : 507. [Not seen.]

Subbiah, M. S., Mahadevan, V. & Janakiraman, R. A note on the occurrence of an arachnid—*Ellingsenius indicus* Chamberlin—infesting bee hives in South India. Indian J. vet. Sci. **27** 1957 : 155–156 figs. 1–2.

Suciù, I., see Feider, Z. (4).

Supperer, R., see Böhm, L. K.

Sutmöller, P. Demodicosis bij geiten en varkens op Aruba (Nederlandse Antillen). Tijdschr. Diergeneesk. Utrecht **82** 1957 : 42–47 figs. 1–8. [See Z.R. **94** 1957.]

Suzuki, S. A remarkable new phalangid, *Ischyropsalis yezoensis* (Ischyropsalidae, Opiliones) from Hokkaido. Annot. Zool. jap. **31** : 167–170 figs. 1–6.

Suzuki, S. (1). Occurrence in Japan of *Caddo agilis* Banks (Opiliones). Annot. zool. jap. **31** : 225–228 figs. 1–6.

Suzuki, S. (2). Spiders with extremely low and high chromosome number. Jap. J. Genet. **25** 1950 : 221–222. [In Japanese.] [Abstract.]

Suzuki, S. (3). On the XO, X₁, X₂O and X₁X₂X₃O sex-determining mechanism in spiders. Jap. J. Genet. **27** 1952 : 233. [In Japanese.] [Abstract.]

Suzuki, S. (4). On the three closely related forms of the genus *Liobunum* (Phalangiidae, Opiliones). J. Fac. Sci. Hokkaido Univ. (Zool.) (6) **13** 1957 : 109–117 figs. 1–25.

Suzuki, S. (5). Opiliones from Shimokita Peninsula, Aomori Prefecture. Misc. Rep. res. Inst. nat. Resourc. Nos. 46–47 : 66–69 figs. 1–4. [In Japanese, English summary.]

Suzuki, S. (6). Chromosomal evolution in spiders. Nippon Dobutsu Gakkai Chugoku-Shikoku Shibu Kaiho **4** 1952 : 5. [In Japanese.] [Not seen.]

Suzuki, S. (7). On the relationship between chromosome and phylogeny in spiders. Nippon Dobutsu Gakkai Chugoku-Shikoku Shibu Kaiho **6** 1954 : 4. [In Japanese.] [Not seen.]

Suzuki, T., see Fujita, H.

Suzuki, T., see Sasa, M.

Svetličić, B. Infestation of fowls with the *Megninia cubitalis* mite and the results of the treatment with lindane. Vet. Arh. Zagreb **26** 1956 : 33–38. [English & German summaries.] [See Z.R. **94** 1957.]

Sweatman, G. K. On the population reduction of chorioptic mange mites on cattle in summer. Canad. J. Zool. **36** : 391–397.

Sweatman, G. K. (1). Redescription of *Chorioptes texanus*, a parasitic mite from the ears of reindeer in the Canadian Arctic. Canad. J. Zool. **36** : 525–528 figs. 1–2.

Sweatman, G. K. (2). Biology of *Otodectes cynotis*, the ear canker mite of carnivores. Canad. J. Zool. **36** : 849–862 figs. 1–5.

Sweatman, G. K. (3). On the life history and validity of the species in *Psoroptes*, a genus of mange mites. Canad. J. Zool. **36** : 905–929 figs. 1–17.

Szlep, R. Influence of external factors on some structural properties of the garden spider (*Aranea diademata*) web. Folia biol. Kraków **6** : 287–299 figs. 1–13.

Szwabowicz, K., Miedzybrodzki, K. & Donigiewicz, K. [Toxicity of *Tyroglyphus farinae* for animals. II. Experiments on horses and sheep.] Méd. wét. Varsovie **13** 1957 : 722–724 fig. 1. [Polish.] [Not seen.]

Tabacaru, I. Beiträge zur Kenntnis der cavernicolen *Gervaisia*—Arten. *Gervaisia orchidani* n. sp. und *G. jonescui* (Bröl.). Zool. Anz. **161** : 157–164 figs. 1–7.

Tabacaru, I., see Negrea, St.

Taberly, G. Les nombres chromosomiques chez quelques espèces d'*Oribates* (Acariens). C.R. Acad. Sci. Paris **246** : 3284–3285 figs. 1–4.

Taberly, G. (1). La cytologie de la parthénogénèse chez *Platynothrus peltifer* (Koch) (Acarien, Oribate). C.R. Acad. Sci. Paris **247** : 1655-1657 figs. 1-6.

Taborda Duarte, A. & Borges Ferrera, L. D. Identificacion da *Linguatula serrata* (forma ninfal) em bovinos autoctones. Rev. Cienc. vet., Lisboa **52** [1957] : 149-152 figs. 1-2. [Not seen.]

Tagiltzev, A. A. Certain data on birds and ticks in the enzootic nidus of tick-borne encephalitis. Med. Parazit., Moskva **27** : 34-39. [In Russian.] Not seen.]

[**Tagiltzev, A. A. (1).** Ecology and biology of nest and burrow-living gamasids, vectors of mite encephalitis.] Ninth Conf. parasit. Probl. 1957 : 250-251. [In Russian.]

Tagle, I. & Alvarez, V. Existencia le *Amblyomma maculatum* Koch 1844 en zorros de Chile. Bol. chilen. Parasit. **12** 1957 : 66.

Takashima, H. Further notes on the scorpions of Micronesia. Acta arach. Tokyo **16** : 8-9. [In Japanese.]

Takashima, H. & Shinohara, K. (1). Taxonomical and morphological study on myriapods collected in the vicinity of Towada, Tohoku District, Japan. Misc. Rep. Yamashima Inst. Orn. Zool. No. 11 1957 : 450-457 figs. 1-4.

Tanasachi, J., see Motas, C. & (1).

Tarasevich, I. V. [A study of experimental Q fever infection in *Hyalomma plumbeum plumbeum* Panz.] J. Microbiol., Moscow **28** 1957 : 818-823 figs. In Russian.] Not seen.]

Tarman, K. Soil fauna in caves. Frgm. balcan. **2** : 9-15 figs. 1-3.

Tarshis, I. B. A preliminary study on feeding *Ornithodoros savignyi* (Audouin) in human blood through animal-derived membranes (Acarina: Argasidae). Ann. Ent. Soc. Amer. **51** : 294-299 figs. 1-4.

Tarshis, I. B. (1). Feeding techniques of bloodsucking arthropods. Proc. 10th Int. Cong. Ent. Montreal **3** 1956 [1958] : 767-784 figs. 1-6.

Taufflieb, R. Notes sur les Trombiculidae (Acarina) de la région de Brazzaville (Moyen-Congo). Description d'une ous-espèce et de deux espèces nouvelles. Bull. Soc. Path. exot. **51** : 413-421 figs. 1-3.

Taylor, E. A., see McClellan, W. D.

Tendeiro, J. An ixodological survey of Mozambique. An. Jta Inv. Ultramar, Lisboa **9** Tom. 3 1954 : 161-164. [Résumé.]

Tendeiro, J. (1). Alguns ectoparasitas recolhidos nos Bijagós. An. Jta Inv. Ultramar, Lisboa **10** Tom. 4 1 1955 : 73-76. [English summary.]

Tendeiro, J. (2). Estudos de ixodologia. Note sobre a distribuição geográfica dos aponomas africanos. Bol. cult. Guiné portug. No. 51 Ano **13** : 269-303 figs. 1-17.

Tendeiro, J. (3). Ixodidae found at S. Tomé and Príncipe Province. Conf. int. Afr. occid. Sess. 6 **4** : 245-249.

Theiler, G. & Salisbury, L. E. Zoological survey of the Union of South Africa Tick survey: Part X. Distribution of *Margaropus winthemi*, the winter horse tick. Onderstepoort J. vet. Sci. **27** : 599-604 map.

Theiler, G. & Salisbury, L. E. (1). Zoological survey of the Union of South Africa Tick survey: Part XI.—The distribution of *Otobius megnini*, the spinose ear tick. Onderstepoort J. vet. Sci. **27** : 605-610 map.

Théodoridès, J. Parasites et phorétiques des Coléoptères des grottes de l'Ariège, et autre cas connus de parasitisme chez des Coléoptères cavernicoles. Notes biospéol. **9** 1954 : 187-197 figs. 1-2.

Thiel, P. H. van, see Gratama, S.

Thomas, M. Qu'est-ce que l'Instinct? —Réponses à quelques objections. Les Naturalistes Belges **36** 1955 : 161-168.

Thomas, M. (1). Aspremont—Centre Entomologique. Riviera sci. **45** : 1-9

Thomas, P. L. & Watson, H. H. The occurrence in New Zealand of the northern poultry mite, *Ornithonyssus sylviarum* (Canestrini & Fanzago, 1877). N.Z. vet. J. **6** : 47-50.

Thompson, M. E. & Johnston, A. M. Total sulphhydryl content of embryos of arsenic-resistant and -sensitive strains of the blue tick, *Boophilus decoloratus*. Nature, Lond. **181** : 647-648.

Thurman, E. B. *Laelaps keegani*, nom. nov. for *Laelaps berlesei* Keegan 1956. Proc. ent. Soc. Wash. **60** : 74.

Tibbets, T. A new species in the genus *Neoteneriffiola* from Utah (Acarina Anystoidea: Teneriffiidae). Gr. Basin Nat. **18** : 43–45 pls. 1–2.

Tibbets, T. & Strandtmann, R. W. Correction. [Illustration of *Ixodorhynchus gordoni*.] Proc. ent. Soc. Wash. **60** : 16 figs. 1–5.

Till, W. M. Five new species of mites (Acarina: Laelaptidae and Spinturnicidae) parasitic on bats in the Ethiopian Region, with a key to the species of the genus *Periglischrus*. Rev. suisse Zool. **65** : 241–258 figs. 1–15.

Till, W. M., see Zumpt, F. (1).

Tipton, V. J. & Boese, J. L. *Steatonyssus furmani*, a new Nearctic bat mite (Acari, Macrognysidae). Proc. ent. Soc. Wash. **60** : 80–84 figs. 1–4.

Tipton, V. J., see Furman, D. P. (1).

Tirumala Rao, V., see Rangarao, P. V.

Tischler, W. Synökologische Untersuchungen an der Fauna der Felder und Feldgehölze. (Ein Beitrag zur Ökologie der Kulturlandschaft). Z. Morph. Ökol. Tiere **47** : 54–114 figs. 1–6.

Toop, C. R. Sarcoptic mange of pigs. J. Agric. W. Aust. (3) **3** 1954 : 171–176 figs. 1–3.

Toshioka, S., see Kano, R.

Townsend, A., see Bonnet, P.

Traub, R., Morrow, M. L. & Lipovsky, L. J. New species of chiggers from Korea. Proc. ent. Soc. Wash. **60** : 145–166 figs. 1–74.

Travé, J. Quelques remarques sur la microfaune des laisses d'étangs. 83 Congr. Soc. sav. : 611–618 fig. 1.

Treat, A. E. A five year census of the moth ear mite in Tyringham, Massachusetts. Ecology **39** : 629–634 figs. 1–5.

Treat, A. E. (1). Unilaterality in infestations of the moth ear mite. J. N.Y. ent. Soc. **65** 1957 (1958) : 41–50 figs. 1–2.

Treat, A. E. (2). A case of peculiar parasitism. Nat. Hist. **67** : 366–373 illust.

Treat, A. E. (3). Social organization in the moth ear mite (*Myrmonyssus phalaenodectes*). Proc. 10th Int. Congr. Ent. Montreal **2** 1956 (1958) : 475–480.

Troitzky, V. B., see Shilova, S. A. & (1).

Arachnida

Trujillo-Cenóz, O., see Sotelo, J. R.

Tshagin, K. P., see Pervomaisky, G. S. & (1).

Tullgren, A., see Brundin, L.

Tupinier, Y. Faune des grottes de Nuits-Saint-Georges. Bull. mens. Soc. linn. Lyon **27** : 289–293.

Turnbull, A. L. Spider predators of the spruce budworm, *Choristoneura fumiferana* (Clem), at Lillooet, B.C., Canada. Proc. 8th Pac. Sci. Congr. **3A** 1957 : 1579–1593.

[**Turpaeva, E. P.**] [New species of Pantopoda of the genus *Pallenopsis* from the North-Western part of the Pacific. Trud. Inst. Okean. **27** : 356–361 figs. 1–2. [In Russian.]

Turpaeva, E. P., see Losina-Losinsky, L. K.

Tuzet, O., Bessière, C. & Manier, J.-F. La spermatogenèse des polydesmes: *Plagiodesmus oatyphus* Chamberlin et *Polydesmus complanatus* Linné. Bull. Inst. Sci. nat. Belg., **33** (18) 1957 : 1–11 pls. 1–4.

Tuzet, O. & Manier, J.-F. (1). Troisième contribution à la connaissance des *Eccrinida* commensaux de l'intestin postérieur de Myriapodes Diplopodes du Brésil. Révision des *Eccrinida* déjà identifiées chez les Diplopodes. Arch. Zool. exp. gen. Notes et Rev. **94** 1957 : 121–147 figs. 1–2.

Tuzet, O., Manier, J.-F. & Jolivet, P. (2). *Nyctotherus* parasites de l'intestin de Myriapodes Diplopodes. Explor. Parc. nat. Albert ser. **2** **5** 1957 : 7–19 figs. 1–7.

Tuzet, O., Manier, J.-F. & Jolivet, P. (3). Trichomycètes monoaxes et rameux de l'intestin postérieur de Polydesmida, Spirostreptida et Spirobolida. Explor. Parc nat. Albert ser. **2** **5** 1957 : 21–38 pls. 1–8.

Tuzet, O., Manier, J.-F. & Jolivet, P. (4). Grégaries parasites de Myriapodes Diplopodes. Explor. Parc Nat. Albert ser. **2** **5** 1957 : 57–76 figs. 1–8.

Tuzet, O., see Jeekel, C. A. W.

Tweedie, M. Centipedes—see how they run! Wild Life Observer No. 13 : 10–13 figs. 1–6.

Tynshnyakova, M. K., see Popov, V. M.

Tzvileneva, V. A., see Lototzkii, B. V. 2).

[Ushakova, G. V.] [Desert ticks of Kazakhstan.] Ninth Conf. parasit. Probl. 1957 : 262-263. [In Russian.]

[Uspenski, F. M.] [On the change in number of *Tetranychus urticae* in cotton plantations of Central Asia and control measures.] Ninth Conf. parasit. Probl. 1957 : 261-262. [In Russian.]

Vachon, M. Notice sommaire sur ses travaux scientifiques. Lons-le-Saunier (M. Declume) 1954 : 1-68 pls. -17.

Vachon, M. (1). A propos de *Lio-
nurus kessleri* Birula, scorpion psam-
ophile nouveau pour la faune iranien-
ne. Bull. Mus. Hist. nat. Paris (2)
30 : 422-426 fig.

Vachon, M. (2). Contribution à l'étude
du développement post-embryonnaire
des araignées. Première note. Généra-
lités et nomenclature des stades. Bull.
Soc. zool. Fr. 82 1957 (1958) : 337-354
figs. 1-11.

Vachon, M. (3). La larve de *Galeodes
trabs* C.L.K. (Arachnide, Solifuge).
C.R. Acad. Sci. Paris 246 : 477-480 figs.
-7.

Vachon, M. (4). Sur la fluorescence
des scorpions à la lumière de Wood.
Nature, Paris No. 3276 : 150.

Vachon, M. (5). A propos d'un
pseudo-scorpion cavernicole découvert
par M. le Dr. H. Henrot, dans une
grotte de la Virginie occidentale, en
Amérique du Nord. Notes biospéol.
No. 7 1952 : 105-111 figs. 1-13.

Vachon, M. (6). Sur deux Pseudo-
scorpions nouveaux des cavernes de
l'Afrique équatoriale [Ideoroniidae].
Notes biospéol. 13 : 57-66 figs. 1-8.

Vachon, M. (7). Scorpions, Mission
scientifique au Tassil des Ajjer (1949).
Trav. Inst. rech. sahar. Univ. Alger
Zool. 3 : 177-193 figs. 1-6.

Vachon, M. (8). Scorpionidea (Cheli-
cerata) de l'Afghanistan. The 3rd
Danish Expedition to Central Asia.
Zoological Results 23). Vidensk. Medd.
fra Dansk naturh. Foren. 120 : 121-187
figs. 1-57.

**Vachon, M., Dumortier, B., &
Busnel, R.-G. (9).** Enregistrements de
stridulations d'un scorpion sud-africain.
Bull. Soc. zool. Fr. 23 : 253-254.

[Vainshtein, B. A.] [On the fauna of
predatory mites belonging to the
family Phytoseiidae in USSR.] Ninth
Conf. parasit. Probl. 1957 : 30. [In
Russian.] See Wainstein.

Valle, A. Contributo alla conoscenza
degli Acari foristi e parassiti del ratto
di chiavica. Atti Soc. Ital. Sci. nat. 97 :
173-198 figs. 1-19.

Vandermeersche, G., see Rasmont,
R. (1).

Van Seventer, H. A. Parasites and
transients. Doc. Med. geogr. trop. 9
1957 : 334-335. figs. 1-5. [Not seen.]

Vargas, L. Clave para identificar los
géneros de garapatas adultas de
Méjico. Rev. Inst. Salubr. Enf. trop.
Mex. 18 : 67-74 figs. 72-74.

[Vashkov, V. I., Brun, M. I., Zakolod-
kina, V. I.] [Preliminary data on
study of preparations for keeping away
the ticks *Dermacentor marginatus* and
Ixodes persulcatus.] Ninth. Conf. parasit.
Probl. 1957 : 30-31. [In Russian.]

Vassilev, I. Mites (Analgesoidea) on
the feathers of game birds in Bulgaria.
Izv. Bulgar. Akad. Nauk Zool. Inst. 6
1957 : 357-379. [In Bulgarian.] [Not
seen.]

Vassilev, I., see Dubinin, V. B. (5).

[Venkova, I. N.] [Fauna of gamasids
of Crimea.] Ninth Conf. parasit.
Probl. 1957 : 31-32. [In Russian.]

Vercammen-Grandjean, P. H. Ré-
vision du genre *Schoutedenichia* Jad.
et Verc. Ann. Mus. Congo belge 65 :
pp. 1-101 figs. 1-44.

**Vercammen-Grandjean, P. H. &
Fain, A. (1).** Les Trombiculidae para-
sites de Chiroptères. Révision du
genre *Trombigastia*. Description d'un
Myotrombicula. Ann. Parasit. 33 :
5-35 figs. 1-10.

Vergani, F. Datos epizootológicos
sobre ixodidos en Venezuela. Bol.
Inst. Inv. Vet. 8 24 1956 : 46-54 4 maps.

Verner, P. H. *Neobisium* (*Neobisium*)
crassifemoratum (Beier) ein neuer Pseu-
doskorpion für die Fauna der Tschecho-
slowakei (Pseudoscorpionidea). Acta
faun. ent. Mus. nat. Prag. 3 : 109-110
fig.

Verner, P. H. (1). Eine neue Pseudo-
skorpionart aus der Tschechoslowakei.
Zool. Anz. 161 : 198-199 fig. 1.

Vernon, J. D. R. An eriophyid mite causing damage to chrysanthemums. *Plant. Pathol.* **6** 1957 : 111.

Verriest, G., see Rabaey, M.

Vervent, G., see Rageau, J.

Viets, K. Bemerkungen zu zwei afrikanischen *Torrenticola*-Arten (Hydrachnellae, Acari). *Zool. Anz.* **161** : 90–104 figs. 1–2.

Viets, K. O. Acari: Porohalacaridae u. Hydrachnellae, Wassermilben. in Catalogus Faunae Austriae, Teil IX h : 1–20.

Viets, K. O. (1). Über einige Wassermilben aus Oberitalienischen Seen. *Mem. Ist. ital. Idrobiol.* **10** : 53–66 figs. 1–3.

Viets, K. O. (2). Fliesswassermilben aus Mainfranken. *Nachr. naturw. Mus. Aschaffenburg* No. 58 : 1–20 pl. 1.

Viets, K. O. (3). Nachtrag zur Wassermilbenfauna von Nordbayern. *Nachr. naturw. Mus. Aschaffenburg* No. 60 : 53–60 pl. 3.

Viets, K. O. (4). Wassermilben aus der Schwechat (Wienerwald). S.B. öst. Akad. Wiss. Abt. I **167** : 59–81 figs. 1–20.

Viets, K. O. (5). Zur Variabilität und Synonymie von *Lebertia* (*Pseudolebertia*) *salebrosa* Koenike 1908 (Hydrachnellae, Acari). *Zool. Anz.*, **160** : 160–167 figs. 1–3.

Vilbaste, A. Endla rabade amblikefauna. Die Spinnenfauna der Endla-Hochmoore. Loodus. Seltsi, Tallinn **50** 1957 : 115–118 figs. 1–2.

Villafranca, G. W. de, Scheinblum, T. S. & Philpott, D. E. The A band of muscle from *Limulus polyphemus*. *Biol. Bull. Woods Hole* **115** : 325–326. [Abstract.]

Vincent, L. E. & Lindgren, D. L. Control of the date mite, *Oligonychus pratensis* (Banks), in California. *Rept. Date Gr. Inst. Coachella* **35** : 15–17. [Not seen.]

Vinogradova, E. V., see Gladkikh, S. G.

[Vinogradova, G. A.] [Material to the anatomy and histology of *Eulaelaps stabulans* Koch, *Haemolaelaps glasgowi* (Ew.) and *Haemogamasus nidi* Mich. (Parasitiformes, Gamasoidea).] Ninth Conf. parasit. Probl. 1957 : 33. [In Russian.]

[Visotzkaya, S. O.] [Oribatei occurring in the nests of rodents and insectivora and their seasonal changes in the lake district of the Leningrad Province.] Ninth Conf. parasit. Probl. 1957 : 43–44. [In Russian.]

Vogelsang, E. G. & Rodil, C., T. Acariosis de las abejas (*Apis mellifica*) por *Acarapis woodi* Rennie. *Rev. Med. vet. Caracas* **16** 1957 : 79–80.

Volgin, V. I. On the taxonomy of predatory mites of the family Cheyletidae 1. Genus *Eutogenes* Baker 1949. *Rev. ent. URSS* **37** : 460–463 figs. 1–10. [In Russian, English summary.]

Volkova, S. E., see Polyakova, Z. P.

[Voropinov, V. S.] [The first finds of the [Meroostomata] fauna in the Verkholensk layers.] *C.R. Acad. Sci. URSS* **114** 1957 : 1291–1293 pl. 1 fig. 2. [In Russian.]

Vražić, O. Ectoparasites of common pheasant (*Phasianus colchicus* L.) of P. R. Croatia. *Vet. Arh.*, Zagreb **26** 1956 : 120–132. [English summary.]

Vrie, M. van de. Biologie en bestrijding van de aardbeimijt. *Meded. Dir. Tuinb.* **20** 1957 : 433–438.

Vrie, M. van de (1). Waarnemingen over de biologie en bestrijding van de aardbeimijt (*Tarsonemus pallidus* Banks) in productievelden. *Meded. Landbouw. Opzoek. Gent.* **22** 1957 : 471–480 figs. 1–3. [English summary.]

Vrie, M. van de & Fluiter, H. J. de (2). Some observations on the effect of insecticides and acaricides on the population of the European red spider mite (*Metatetranychus ulmi* Koch) and its principal predators in commercial orchards in the Netherlands. *Proc. 10th Int. Cong. Ent. Montreal* **4** 1956 (1958) : 603–606 figs. 1–7.

[Vshivkov, F. N.] [Ixodids of wild vertebrates of Crimea.] Ninth Conf. parasit. Probl. 1957 : 41–42. [In Russian.]

Wada, Y. On a method of population estimation of spider mite, *Paratetranychus hondoensis* Ehara, feeding on the Japanese cedar, by the aid of "beating." *J. Japan. Forest. Soc.* **40** : 288–292 figs. [In Japanese, English summary.] [Not seen.]

- Wagh, U. V., *see* Inamdar, N. B.
- Wagner-Jevseenko, O. Fortpflanzung über *Ornithodoros moubata* und genitale Übertragung von *Borrelia duttoni*. Acta Trop. Basel **15** : 118-168 figs. 1-17.
- Wainstein, B. A. A contribution to the knowledge of the fauna and the taxonomy of spider-mites (Acariformes, Tetranychoidae). Rev. ent. U.S.S.R. **37** : 455-459 figs. 1-4. [In Russian, English summary.] *See* Vainshtein.
- Wakefield, N. A. The discovery of the Sydney funnel-web spider (*Atrax robustus*) in Victoria. Vict. Nat. Melb. **74** : 174-178 2 figs.
- Walentynowicz-Stanczyk, R., *see* Kozowski, S. (4).
- Wallace, M. M. H. A rapid method of sampling small free-living pasture insects and mites. J. Aust. Inst. agric. Sci. **22** 1956 : 283-284 figs. 1-3.
- Wallwork, J. A. Notes on the feeding behaviour of some forest soil Acarina. Oikos **9** : 260-271 figs. 1-6.
- Wang, D. C., *see* Chen, H. T. (2).
- Wang, Y.-H. M. Records of Foranosan myriapods. Proc. 10th Int. Cong. Ent. Montreal **1** 1956 (1958) : 81-882.
- Wang, Y. M. (1). Serica Ig: Records of myriapods on Taiwan Island (4). Six new Polydesmids. I^h: (5) With description of three new species. Quart. J. Taiwan Mus. **10** 1957 : 103-16 figs. 1-9.
- Wang, Y.-h. M. (2). Serica Ii: On Diplopoda from Taiwan with a new tritylosomid. Quart. J. Taiwan Mus. **1** : 340-344 fig.
- Warwick, A., *see* Shirodkar, M. V.
- Watanabe, S. et al. Studies on intermediate host of *Moniezia expansa*. Japan. vet. med. Assoc. **10** 1957 : 582-585 figs. 1-5. [In Japanese.] [Not seen.]
- Watson, H. H., *see* Thomas, P. L.
- Webster, W. J., *see* May, P.
- Weglarska, B. On the encystation in Cardigrada. Part first. Zool. Polon. **8** 1957 : 315-323 pl. 1.
- Wegner, Z. & Przyborowski, T. Ectoparasites of rats in the port of Gdynia. Wiad. Parazytol. **4** : 773-774. [English translation.]
- Wegner, Z., *see* Lachmajer, J. & (1).
- Weil, E. Zur Biologie der einheimischen Geophiliden. Z. angew. Ent. **42** : 173-209 figs. 1-28.
- Weiss, C., *see* Adam, K. R.
- Weissmann, A., Shulov, A., & Shafrir, E. Electrophoresis of the venom and haemolymph of the scorpion *Buthus judaicus* E.S. Experimentia **14** : 175-176 figs. 1-3.
- Wen, T. W. Observations on the mating process of *Acomatacarus yosanoi* Fukuzumi et Obata, 1953, with the discovery of its spermatophores (Acariformes: Trombiculidae). Acta zool. Sin., **10** : 213-222. pls. 1-2. [In Chinese, English summary.]
- Whatmough, G. W. Arachnology. Trans. Lines Nats. Un. **14** : 181-186.
- Wharton, G. W., *see* Strandtmann, R. W. (1).
- Whitehead, G. B. Acaricide resistance in the blue tick, *Boophilus decoloratus* (Koch)—Part I. Bull. ent. Res. **49** : 661-673 figs. 1-16.
- Whitehead, W. F. & Rempel, J. G. The musculature of the black widow spider, *Latrodectus mactans* (Fabricius) (Araneae: Theridiidae). Proc. 10th Int. Cong. Ent. Montreal **1** 1956 (1958) : 561. [Abstract.]
- Whitnall, A. B. M. An orchard mite resistant to organophosphorus insecticides. J. ent. Soc. S. Afr. **21** : 239-248 figs. 1-2.
- Wiener, S. The Sydney funnel-web spider (*Atrax robustus*). I. Collection of venom and its toxicity in animals. Med. J. Aust. II **44** 1957 : 377-383 figs.
- Wickerhauser, T., *see* Zukovic, M. (2).
- Wild, A. M. Notes on the biology and distribution of some British spiders. Ann. Mag. nat. Hist. (12) **10** (1957) 1958 : 851-859.
- Wiley, A. J. Distribution of the common brown tick in Kenya. E. Afr. agric. J. **24** : 53-56 map.
- Wilkinson, P. R. Ticks from burrows. Aust. J. Sci. **21** : 83-84.
- Williams, G. Mechanical time-sorting of pitfall captures. J. Anim. Ecol. **27** : 27-35 fig. 1.

Williams, R. W. An infestation of a human habitation by *Dermanyssus gallinae* (Degeer, 1778) (Acarina: Dermanyssidae) in New York City resulting in sanguisugent attacks upon the occupants. Amer. J. trop. Med. Hyg. 7 : 627-629.

Willis, J. H. Three months with an orchard spider (*Celaenia excavata*). Vict. Nat. Melb. 75 : 84-85.

Wilson, N. Ectoparasites of the house sparrow, *Passer domesticus* (L.) in Kentucky. J. Parasit. 44 : 545.

Wilson, N. (1). Additions to the tick fauna of Indiana (Acarina: Argasidae, Ixodidae). J. Parasit. 44 : 4 Sect. 2 : 23. [Abstract.]

Wilson, O., see Dalenius, P.

Wilson, R. S. Some aspects of the experimental study of behaviour. Proc. R. phys. Soc. Edinb. 27 : 29-32.

Wingo, C. W., see Atkins, J. A.

Wingo, C. W., see Sodeman, W. A.

Winkler, J. R. Bibliografie Roztočí (Acari) ČSR. Praha (Vydal KNV), pp. 53.

Wolff, T. Notitser om danske havedderkopper. Flora og Fauna 64 : 1-7 figs. 1-4. [English summary.]

Womersley, H. Notes on the *Haemolaelaps marsupialis* Berl. complex, with the description of a new species of the genus (Acarina, Laelaptidae). Proc. Linn. Soc. N.S.W. 82 : 297-302 figs. 1-2.

Womersley, H. (1). Description of the male of *Garmania nesbitti* Wom. (Acarina, Phytoseiidae), and the first record of this species in New Zealand. Trans. roy. Soc. N.Z. 85 : 685-686 fig. 1.

Womersley, H. (2). On some Acarina from Australia and New Guinea paraphagic upon millipedes and cockroaches, and on beetles of the family Passalidae. Trans. roy. Soc. S. Aust. 81 : 13-29 figs. 1-6.

Womersley, H. (3). Some new or little-known Mesostigmata (Acarina) from Australia, New Zealand and Malaya. Trans. roy. Soc. S. Aust. 81 : 115-130 figs. 1-8.

Woolley, T. A. A preliminary account of the phylogeny of the Oribatei (Acarina: Sarcoptiformes). Proc. 10th Int. Cong. Ent. Montreal 1 : 956 (1958) : 867-873.

Woolley, T. A. (1). Redescriptions of Ewing's oribatid mites, VI—Family Liacaridae (Acarina: Oribatei). Trans. Amer. micr. Soc. 77 : 1-10 figs. 1-13.

Woolley, T. A. (2). Redescriptions of Ewing's oribatid mites, VII—family Oribatellidae (Acarina: Oribatei). Trans. Amer. micr. Soc. 77 : 135-146 figs. 1-18.

Woolley, T. A. (3). Redescription of Ewing's oribatid mites, VIII-IX. Trans. Amer. micr. Soc. 77 : 258-279 pls. 1-3 figs. 1-4.

Woolley, T. A. (4). Redescriptions of Ewing's oribatid mites, X—Family Haplozetidae (Acarina: Oribatei). Trans. Amer. micr. Soc. 77 : 333-340 figs. 1-10.

Woolley, T. A. & Baker, E. W. (5). A key to the superfamilies and principal families of the Oribatei (Sarcoptiformes Acarina). Ent. News 69 : 85-92 figs. 1-6.

Woolley, T. A. & Higgins, H. G. (6). A revision of the family Nanhermannidae (Acari: Oribatei). Proc. 10th Int. Cong. Ent. Montreal 1 : 1956 (1958) : 913-923 figs. 1-9.

Woolley, T. A., see Baker, E. W. (2).

Woolley, T. A., see Higgins, H. G. (2).

Wurth, D. On the rare (atypical) localization of the *Chorioptes* mange in the horse. Vet. Arhiv. Zagreb 28 : 117-121 fig. [In Yugoslav, German summary.] [Not seen.]

Wysoczynska, H., see Kawecki, Z.

Yaginuma, T. Revision of Japanese spiders of family Argiopidae. I—Genus *Meta* and a new species. Acta arach. Tokyo 15 : 24-30 pl. 2.

Yaginuma, T. (1). Substitution of the generic name *Argyroaster* for *Argyria* (Theridiidae: Araneae). Acta arach. Tokyo 15 : 37-38. [In Japanese, English summary.]

Yaginuma, T. (2). Revision of Japanese spiders of family Argiopidae. II—Genus *Cyrtophora*. Acta arach. Tokyo 16 : 10-17 figs. 1-3. [In Japanese, English summary.]

Yaginuma, T. (3). On some Japanese spiders of *Cyrtarachne* and *Ordgarius*. Hyogo Biology 3 : 265-267 figs. A-F.

Yaginuma, T. (4). A new anyphaenid spider from Hiroshima Prefecture. Misc. Rep. Hiwa Mus. Nat. Hist. Hiroshima No. 1 : 25-28 pl. 5.

Yaginuma, T. (5). Spiders from Shimokita Peninsula, Aomori Prefecture, Japan. Misc. Rep. res. Inst. nat. Resourc. Nos. 46-47 : 69-77 figs. 1-29. [In Japanese, English summary.]

Yajima, A., see Kitaoka, S. & (1), (2), (3).

[**Yakobashvili, N. I.**] [Description of a new species, belonging to the genus *Bryobia* (Acariformes, Bryobiidae).] Trud. Inst. Zool. Akad. Nauk Gruzinsk. SSR 16 : 265-266 fig. [In Russian.]

Yermoshkenich, B. I. [Cases of copulation of *Rhipicephalus sanguineus* (Latr.) 1806 and *Boophilus calcaratus* Bir., 1895 (Ixodidae).] Doklady Akad. Nauk Tadzh. SSR. 1956 (17) : 31-33. [In Russian.] [Not seen.]

Yonge, C. M., see Barrett, J. H.

Yoshikura, M. Observations on the breeding habits of a whip scorpion *Tylopeltis stimpsonii* Wood. Acta arach. Tokyo 16 : 1-7 figs. 1-2. [In Japanese, English summary.]

Yoshikura, M. (1). On the development of a purse-web spider, *Atypus karschi* Dönnitz. Kumamoto J. Sci. (B) Sect. 2 3 : 73-86 figs. 1-12.

Young, F. N. A large aggregation of larval millipedes, *Zinaria butleri* (McNeill), in Brown County, Indiana. Proc. Indiana Acad. Sci. 67 : 171-172.

Yu, E.-s. & Lin, S.-j. Study on the condition of natural infection with *Rickettsia tsutsugamushi* among mites and domestic animals in Fukien. Acta microbiol. sinica 5 1957 : 425-432. [In Chinese, English summary.]

Yunker, C. E. A study of some ecological factors influencing acarine populations of Egyptian gerbils' burrows. J. Parasit. 44 4 Sect. 2 : 22. [Abstract.]

Yunker, C. E. (1). The parasitic mites of *Myotis lucifugus* (Le Conte). Proc. helm. Soc. Wash., 25 : 31-34.

Yunker, C. E., see Baker, E. W. (2).

Zacarias, S., see Pizzi P., T.

Zakhvatkina, E. M. [Certain data on the fauna of Oribatid mites of the Union.]—Aleynikova, M. M. & others. All-Union conference on soil zoology. Summary of papers. Moscow : 39-40. [In Russian.]

Zakolodkina, V. I., see Vashkov, V. I.

Zangheri, E., see Calvo, R. & (1).

Zapletal, M., see Grulich, I.

Zein-Eldin, E. A. & Scott, J. A. Free amino acid content of the adult tropical rat mite, *Ornithonyssus bacoti* (Hirst, 1913). J. Parasit. 44 4 Sect. 2 : 22. [Abstract.]

[**Zemskaya, A. A.**] [Gamasids in the focus of Q-fever in Northern Kazakhstan.] Ninth Conf. parasit. Probl. 1957 : 99-101. [In Russian.]

Zenginov, K. H. The epidemiological and epizootiological significance of ticks and the control measures. Priroda (Sofia) 5 1956 : 47-52. [In Bulgarian.] [Not seen.]

[**Zhmaeva, Z. M., Karulin, B. E. & Pchelkina, A. A.**] [Natural foci of Q-fever in Central Asia, and Kazakhstan.] Ninth Conf. parasit. Probl. 1957 : 91. [In Russian.]

[**Zhovtii, I. F., Emelyanova, N. D., Kopilova, O. A. & Prokopyev, V. N.**] [On Trombiculidae of Transbaikal.] Ninth Conf. parasit. Probl. 1957 : 92-93. [In Russian.]

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Zolessi, L. C. de. Observaciones sobre el comportamiento sexual de *Bothriurus bonariensis* (Koch) (Scorpiones, Bothriuridae). Nota preliminar. Bol. Fac. Agron. Montevideo No. 35 1956 : 3-10 figs. 1-5.

Zolotarev, N. A. [Tick fauna in the domestic animals of Daghestan and their importance in epiziology of hemosporidiosis.] Trudy Inst. Zhivotnovodstva. Daghestansk Fil. Akad. Nauk SSSR. 1956 (3) 12-19. [In Russian.] [Not seen.]

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Žuković, M. Parasiten der Meerschweinchen (*Cavia cobaya*). Bull. int. Acad. jugosl. Sci. N.S. No. 9 1953 : 155-157.

Žuković, M. (1). Parasiti zamorčeta (*Cavia cobaya*). Rad. jug. Akad. Zuan. No. 298 1953 : 197-205.

Žuković, M. & Wickerhauser, T. (2). [Contribution to the study of the ectoparasitic fauna of birds from Croatia.] *Larus* 8 1954 (1956) : 102-111. [In Yugoslavian, English summary.]

Zukowski, K. The taxonomy of the genus *Laelaps* C. L. Koch, 1836, in the light of zoometrical and statistical research. *Wiad. Parazytyt.* 4 : 735-737. [English translation.]

Zukowski, K. (1). The embryonal and post-embryonal development of the species of the genus *Laelaps* C. L. Koch, 1836, occurring in the area of the Białowieża National Park. *Wiad. Parazytyt.* 4 : 739-741. [English translation.]

Zukowski, K. (2). An introductory inquiry into the independence of the species *Eugamasus oudemansi* Berlese, 1903. *Wiad. Parazytyt.* 4 : 743-744. [English translation.]

Zukowski, K., see Kozłowski, S. (5).

Zumpt, F. A preliminary survey of the distribution and host-specificity of ticks (Ixodoidea) in the Bechuanaland Protectorate. *Bull. ent. Res.* 49 : 201-223 maps 1-4.

Zumpt, F. & Till, W. M. (1). Notes on the classification and synonymy of gamasid mites parasitic on vertebrates (Acarina: Mesostigmata). *J. ent. Soc. S. Afr.* 21 : 261-273.

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(opossum), Domrov; *Haemogamasus bre-*

getvae off *Pitymys tetricus*: *Hirstionys-sus tetricus* off *Microtus nivalis* mihran-reini, **Mrciak** (2); *Haemolaelaps domrowi* off *Perameles nasuta*, **Womersley**; *Hal-arachne taita* off sea-elephant, *Taita* (*Mirounga*) *leoina*, **Eichler**; *Metaspino-laelaps aelleni* off *Nycteris thebaica capensis*; *Periglischrus mouchei* off *Hipposideros caffer guineensis*; *P. nycterus* off *Nycteris arge*; *P. zuluensis* off *Nycteris thebaica capensis*; *Steato-nyssus hippoferos* off *Hipposideros cyclops*, **Till**; *Myonyssoides natalensis* off mole-rat *Amblysomus hottentotus*, **Lavoipierre** (1); *Pneumonyssus simicola* in lungs of *Macacus rhesus* and *M. cynomolgus*, **Kozlowski et al.** (4); *Rhinophaga pongoicola* from Orang-Outan, **Fain** (7); *Steatonyssus furmani* off *Lasiurus borealis* (bat), **Tipton & Boese**.

Parasitism: Mammalian hosts: Pro-stigmata.—*Atellana papilio* off phalan-gerid, *Trichosurus vulpecula*: *Austro-chirus perkinsi* off koala, *Phascolarctos cinereus*, **Domrow** (1); *Cheladonta styri-ica* off *Apodemus flavicollis* and off *A. sylvaticus*, **Kepka** (2); *Cheyletiella parasi-tivorax* on dog, **Hart & Malone**; *Cheyletiella parasitivorax* on dog, **Humphreys**; *Theyletiella parasitivorax* on dog, **Schaffer et al.**; *Cheyletiella parasitivorax* off rabbit, **Myktytowycz**; *Demodex caprae* on goat, **Barrett**; *Demodex caprae* and *D. phylloides* on goats and hogs, **Sutmöller**; *Demodex criceti* off *Mesocricetus auratus* (golden hamster), **Nutting & Rauch**; *Euschöngastia donaldi* off *Apodemus sylvaticus*, **Kepka** (1); *Eschöngastia schlugeri* var. *fukienensis* off *Rattus edwardsi*, **Chen et al.** (2); *Euschöngastia* (*L.*) *arcaricola* off *Eutamias sibiricus*; *Gahrliepia* (*W.*) *comaxilla* off *Microtus fortis* *pelliceus*, off *Apodemus agrarius*, off *Cricetulus triton* *nestor*, off *Clethrionomys rufo-canarus regulus*; *Shunsennia hertigi* off *Apodemus peninsulae*, off *A. agrarius*, off *Clethrionomys rufo-canarus*; *Trombicula* (*L.*) *gemicula* off *A. peninsulae*, off *A. agrarius*, *T. (L.) halidasys* off *A. agrarius*, *T. (L.) pumilis* off *Eutamias sibiricus*, *T. (L.) tecta* off *Apodemus agrarius*, off *Microtus fortis*, *T. (L.) zeta* off *Apodemus agrarius*, **Traub et al.**; *Gahrliepia* (*W.*) *masoni* off *Lepus* spp., **Asanuma & Saito** (5); *Kaaia peruvensis* off *Punomys lemninus*, *Beamerella acutascuta* off *Chilonyceris r. rubiginosa*

(bat), **Brennan**; *Schoutedenichia lorgei* off *Dendrohyrax arboreus*; *S. evansi* off *Galago senegalensis*; *S. berghei* off *Thamnomys surdaster* and off *Crocidura* sp.: *S. zanzibarica* off *Galago senegalensis*; *S. dipodilli* off *Dipodillus campestris*; *S. buxtoni* off *Tamiscus böhmi*; *S. dureni* off *Elephantulus fuscipes* and off *Nasilio brachyrhynchus*; *S. morosi* off *Otomys* sp.; *S. paulus paulus* off *Crocidura bicolor*; *S. paulus major* off *Cricetomys dissimilis* and off *Centropus grilli*; *S. cordiformis* off *Mastomys coucha*, off *Lemniscomys striatus*, off *Rattus r. frugivorus*, off *Crocidura*, off *Thamnomys surdaster*; *S. pilosa* off *Mastomys hypoxanthus*, off *Mastomys coucha*, off *Crocidura bicolor*, off *Lophuromys aquilus*, off *Dasyurus bentleyae*; *S. kivuensis* off *Crocidura* sp.; *S. paraxeri* off *Paraxerus cepapiquatus*; *S. lumsdeni* off *Paraxerus* sp.; *S. trombiculoides* off *Scotophilus murinoflavus*; *S. oyei* off *Petrodromus tordayi*; *S. congolensis* off *Rattus r. frugivorus*; *S. panai panai* off *Mastomys coucha*; *S. panai luberoensis* off *Mastomys coucha*; *S. panai buku-vuensis* off *Otomys irroratus*; *S. brachiospissi* off *Mastomys coucha* also off *Arvicantis abyssinicus*; *S. nana nana* off *Oenomys hypoxanthus* also off *Rattus r. alexandrinus*; *S. nana gordoni* off *Oenomys hypoxanthus*; *S. nasilionis* off *Nasilio brachyrhynchus*, **Vercammen-Grandjean**; *Speleognathopsis bastini* off *Myotis myotis*, **Fain**; *Trombicula alba* off *Rhinolophus c. cornutus* and *T. uchidai* off *Miniopterus schreibersii fuliginosus*, **Kamo et al.** (1); *Trombicula reesi* off *Peromyscus maniculatus*, **Allred**.

Parasitism: Mammalian hosts: Crypto-stigmata.—*Atopomelus caviae* off guinea-pig, **Groschaft**; *Chirodiscoides caviae* from *Cavia cobaya*, **Žukovič** (1); *Chori-optes crewei* off antelope, *Cephalophorus rufilatus*, **Lavoipierre**; *Chorioptes* in horse, **Wurth**; *Myocoptes tenax* off *Microtus agrestis*, **Böhm & Supperer**; *Nycteridocoptes lavoipierrei*, *N. macro-phallus*, *N. rousettii* off *Rousettus leachi*, **Fain** (5); *Sarcoptes scabiei* off porcupine **Payne & O'Meara**.

Parasitism: Mammalian hosts: Meta-stigmata.—*Amblyomma imitator* off goat, **Kohls**; *Argas vespertilionis* off Egyptian bats, **Hoogstraal**; *Haemaphysalis ethiopica* off *Otolemus crassicaudatus*: off *Atilax paludinosus*: off *Panthera pardus*:

off *Genetta tigrina*: off *Mungos mongo*: off *Helogale parvula*: off *Otocynon megalotis*: off *Poecilogale albinucha*: off *Canis familiaris*: off *Felis caracal*: off *Ichnuemia albicauda grandis*, **Dias (4)**; *Hyalomma* spp. off gerbil, **Hoogstraal & Kaiser (4)**; *Ixodes auriculae-longae* off mouse: *I. euptecti* off *Euplectus macrourus*: *I. latus* off *Sciurus lucifer*: *I. loveridgei* off *Cricetomys gambianus viator*: *I. nchisiensis* off *Petrodromus* sp.: *I. rotundatus* off bushbuck: *I. spinae* off *Procavia capensis*, **Arthur (1)**; *Ixodes lasallei* off *Cuniculus paca*, **Mendez & Ortiz (1)**; *Ixodes ricinus* under skin of *Vulpes vulpes*, **Drózdz**; *Otobius megnini* off goats and sheep, **Rich**; Off Cottontail rabbit, **Stannard & Pietsch**.

Parasitism: Acarina general.—Bats, **Hiregauer & Bal**; *Clethrionomys glareolus*, Grinbergs; Jackal, Chernishev; *Myotis lucifugus*, Yunker (1); *Peromyscus* spp., Allred (2); *Prometheomys schaposchnikoi*, Razumova; Cotton rats, *Sigmodon hispidus*, Smith & Love; Rats, Valle; Rats, Wegner & Przyborowski.

Parasitism: Avian hosts: Mesostigmata.—*Neonyssus zenaiderae* off dove, Zenaidera macroura, Owen; *Ptilonyssus nicatoris* of Nicator chloris; *Ruandayssus buboensis* off Bubo africana, Fain (6); *Ptilonyssus walterberghi* off Suthora webbiania: *Sternostoma paddae* off Padda oryzivora, Fain (1); *Sternostoma straeleni* off *Cinnyricinclus leucogaster*; *Turbinoptes congolensis* off *Actophilornis africanus*, Fain (2).

Parasitism: Avian hosts: Prostigmata.—*Boydaia trochila* off *Colibris*, Fain (1); *Boydaia colini* off *Colinus virginianus*, Clark, G. M. (1); *Boydaia nectarinia* off *Cyanomitra verticalis* viridisplendens, Fain (4); *Eschongastia audyi paishaensis* off *Megalaima oorti*, Chen et al (2); *Mackiena smadelii* off *Prunella r. rubida*, Asanuma (1); *Neoschongastia americana hexasternosetosa* off *Cuculus p. poliocephalus*, Chen & Hsu; *Neoschongastia hullinghorsti* off plover, Charadrius placidus, Asanuma (2).

Parasitism: Avian hosts: Cryptostigmata.—*Alloptes dolichotrichus* off *Arenaria interpres*; *Alloptes fauri* off *Larus fuscus affinis*; *Alloptes lari* off *Larus marinus*, off *L. argentatus*, off *L. ridibundus*; *Brephosceles vanelli* off *Vanellus vanellus*; *Proctophyllodes doleophyes* off *Muscicapa striata*, off *M.*

hypoleuca, off *Phylloscopus trochilus*, off *P. sibilatrix erlangeri*, off *Hippolais polyglotta* and off *Agrobates galactotes*; *Proctophyllodes leptocaulus* off *Lanius senator*; *Proctophyllodes microcaulus* off *Galerita cristata riggenbachi*, off *G. tecklae erlangeri*, off *Alauda arvensis* and off *Melanocorypha calandra*; *Proctophyllodes militariae* off *Emberiza calandra*; *Proctophyllodes reguli* off *Regulus ignicapillus*; *Proctophyllodes sylviae* off *Sylvia atricapilla* and off *S. melanocephala*; *Pterodectes merulae* off *Turdus merula mauritanica*; *Trouessartia crucifera* off *Hirundo rustica*, *Trouessartia incisa* off *Turdus merula mauritanica*; *Trouessartia inexpectata* off *Sylvia melanocephala*; *Trouessartia piscicauda* off *Hirundo rustica*; *Trouessartia 14-dentata* off *Cisticola juncidis cisticola*; *Trouessartia similima* off *Muscicapa striata*, Gaud; *Analges faraji* off *Hypolais polyglotta*; *Meginniella fulicae* off *Fulica atra*: *M. porzanae* off *Porzana pusilla intermedia*; *Psoroptoides bothrioplax* off *Chelidonias nigra*; *Leprosphrya arenariae* off *Arenaria interpres*, off *Limosa limosa*, off *Calidris minuta*; *Leptosphrya fissitarsa* off *Capella gallinago*; *Leptosphrya foliata* off *Tringa totanus*; *Leptosphrya pilosa* off *Tringa glareola*; *Pteralloptes megarichus* off *Caprimulgus europaeus*, Gaud (1); *Trouessartia angustifolia* off *Dicrurus atripennis* and off *D. adsimilis*; *T. aperta* off *Spermophaga haematina*; *T. blanca* off *Nigrita canicapilla*; *T. clytorhynchus* off *Clytospiza monteiri*; *T. coalescens* off *Pyrrhurus simplex* also off *P. flavigula*, off *Arizelochichla falkensteinii*, off *Andropadus gracilis*; *T. concinna* off *Spermestes bicolor poensis*; *T. curtifolia* off *Pedicularis comitatus*; *T. curtispina* off *Nigrita canicapilla*; *T. decorata* off *Spermestes bicolor poensis* and off *S. haematinia*; *T. estrilda* off *Estrilda nonnula* & *E. melpoda*; *T. galliardii* off *Amblyospiza albifrons saturatus*; *T. kiefferi* off *Nigrita canicapilla*; *T. longifolia* off *Alethe castanea*; *T. minuscula* off *Estrilda nonnula* & off *E. melpoda*; *T. modesta* off *Psalidoprocne petiti*; *T. multidentata* off *Clytospiza monteiri*; *T. ocellata* off *Pycnonotus barbatus gabonensis*; *T. paucidentata* off *Estrilda nonnula*; *T. ploceorum* off *Ploceus aurantius* and *Melanopteryx nigerrimus*; *T. poeopterae* off *Poepetra lugubris*; *T. rousseli* off *Spermophaga hoematina*; *T. stizorrhinae*

off *Stizorhina frazeri*: *T. subacuta* off *Pedilorhynchus comitatus*: *T. tili* off *Cossipha cyanocampter*: *T. viduae* off *Vidua macroura*, **Gaud & Mouchet** (2); *Syringophilus anthe* off *Anthus trivialis*: *S. bisetatus* off *Sylvia communis*: *S. tryobatis* off *Dryobates major*: *S. fringillae* off *Fringilla coelebs*, off *Carduelis carduelis*, off *Passer montanus*, off *Hirundo rustica*: *S. troglodytis* off *Troglodytes troglodytes*: *S. turdi* off *Turdus pilaris* and off *Chloris chloris*: *S. minor glandarii* off *Garrulus glandarius* and off *Coccothrautes coccothraustes*, **Fritsch**; *Megninia cubitalis* on hen, *Lavoipierre* (2); *Pterodectes lineatus* off *Caryothrautes canadensis brasiliensis* and *P. nordestensis* off *C. canadensis frontalis*, **Berla**.

Parasitism: Avian hosts: Metastigmata.—*Ixodes diomedeae* off *Diomedea chlororhynchos*, **Arthur** (2); *Argas agenopastes* on fairy martin, **Bourke**; *Hyalomma* spp. off migrating birds, **Hoogstraal & Kaiser** (3); *Ixodes jessevi* off *Petronia petronia*, **Reznik**; *Ixodes kohlsi* off *Eudyptula minor*, **Myktytowycz & Hesterman**.

Parasitism: Reptilian and Amphibian hosts.—*Benoinyssus naja* in nasal cavities of *Naja melanoleuca*, **Fain** (3); *Eutrombicula alfreddugesi* on lizard, **Fitch**; *Geckobiella harrisi* off *Plica plica* (*Iguana*), **Davidson**; *Ophioptes dromicus* off *Dromicoides orientalis*, **Allred** (1); *Pterygosoma* spp. off lizards, **Jack**; *Trombicula hasei* off *Lacerta* spp., **Feider** (2); *Aponomma elaphensis* off *Elaphe subocularis* (rat snake), **Price**; *Hyalomma* spp. off lizards, **Hoogstraal & Kaiser** (2).

Parasitism: Invertebrate hosts.—*Acarapis woodi* infesting *Apis mellifera*, **Bailey**; *Achorolophus boccettii* off Orthopt., **Lombardini** (1); *Arrenurus (Meg.) donatophilus* off *Trithemis arteriosa* (*Odonata*), **Münchberg** (1); *Caloglyphus rossoceri* off *Crossocerus capitosus*; *Histiostoma ovalis marani* off *Ips excentdentatus*, **Samšíák**; *Crenamargo inuseta* off weevil, *Rhynchophorus palmarum*, **Hicks**; *Johnstoniana harghiense* and *J. ventripilosa* off *Tipulidae*, **Feider**; *Myrmonysus phalaenodectes* in moth's ear, *Pseudoletia unipuncta*, **Treat** (1), (2); *Trombicula* (*A.*) *scoschongastroides*, *T. (A.) berhei*, *T. (S.) scapularia*, *T. (T.) laarmanni*, *T. (T.) minor*, *T. (T.) vinkei*, *?Myotrom-*

bicula bidentipalpis all off *Hippobosca caffer centralis*: *Trombicula* (*T.*) *hirnsuta* and *T. (T.) rousettii* off *Rousettus (L.) angolensis*: *T. (T.) nycteris* off *Nycteris h. hispida*, **Vercammen-Grandjean & Fain** (1); Diplogyniid mites on millipedes, cockroaches and Passalid beetles, **Womersley** (2); Acar. on mosquitoes, **Barr**; Erythraeidae off insects, etc., **Karppinen**; Acarina from insects **Kozlowski** (2); Acarina of bees, **Sardar**.

Intermediate hosts.—*Hepatozoon* in *Euhaeomogamasus ambulans*, **Clark**, G. M.

Pentastomida.—*Armillifer armillatus* in human, **Gratama & Thiel**; *Armillifer moniliformis* in *Macacus cynomolgus*, **Kozlowski et al.** (8); *Linguatula serrata* in human, **Papadakis & Hourmouziadis**; *Linguatula serrata* in *Cavia cobaya*, **Žuković & (1)**.

Phoresy—Pseudoscorp. of Belgian Congo, **Leleup**; Pseudoscorp. on beetles, **Théodoridès**.

Seasonal activity.—Ixod., **Moiseenko**; *Trombicula autumnalis* and *T. zachvatkinii*, **Daniel** (1); *Ixodes ricinus*, **Kadyte**.

Parasitism: Plant hosts.—*Aplonobia dyschima* off *Acacia* sp.: *A. verrucosa* off *Lippia graveolens*; *Eotetranychus oistus* off *Ipomoea arborescens*; *Neotetranychus flabellosetus* off *Cassia bacillaris*: *N. hispidosetus* off *Erythrina* sp.: *N. undulatus* off *Beaucarnea stricta*; *Oligonychus flexuosus* off *Paspalum humboldtianum*, **Beer & Lang** (2); *Aceria victoriae* off *Haloragis erecta*, **Ramsay**; *Anchiphylloptus beeri* off *Beaucarnea stricta* (Liliaceae); *Acerimina cedrelae* off *Cedrela australis* (Meliaceae); *Aceria snetsingeri* off *Celtis occidentalis* (Ulmaceae); *Eriophyes hybridicola* off *Prunus*: *Vasates rhodensis* off *Salix* sp.; *Vasates celtidis* off *Celtis occidentalis*, **Keifer**; *Brevipalpus penatisetis* off poplar, *Schizotetranychus* (s. str.) *beckeri* off Gramineae; *B. halimodendri* off *Halimodendron*, *Tetranychus similis* off *Eryngium*, **Wainstein**; *Bryobia angustisetis* off *Corylus colurna* & *C. avellana*, **Yakobashvili**; *Bryobia charai* off *Chrysanthemum*, *B. spica* off *Cytisus scoparius*, **Pritchard & Keifer**; *Eotetranychus multidigituli* off honey locust tree, *Gleditsia triacanthos*, **English & Snetsinger**; *Epitrimerus alinae* off chrysanthemums, **Vernon**; *Neophyllobius* spp., **De Leon** (1); *Paratetranychus indicus* and *Schizotetranychus*

andropogoni off sugar-cane, Khan & Murthy; *Schizotetranychus andropogonii* pest of sugarcane, Agarwal; *Schizotetranychus recki* off sasa bamboo, Ehara (1); *Tetranychus telarius* off sugar beet, Jones; *Vasates ambrosii* off peach tree, Lombardini (2); *Vasates fockeui* off myrobalan plum, Gilmer & McEwen; *Typhlodromus annectens* off *Trema floridana*, off *Morus rubra*, off *Callicarpa americana*, off *Verbesina virginica*, off *Hamelia patens*, off *Eriobotrya japonica*, off *Tetrazygia bicolor*, off *Cercis canadensis*; *T. ecclesiasticus* off *Leguncularia racemosa*, off *Tecoma stans*; *T. ellipticus* off *Conocarpus erecta*, off *Ahras zapota*, of *Bursa simaruba*, off *Laguncularia racemosa*; *T. jackmickleyi* off *Conocarpus erecta*, De Leon; *Typhlodromus tiliae* off *Tilia euchlora* and *Tilia ulmifolia*, Korth; Hosts of *Typhlodromus* spp. in British Columbia, Anderson et al. (2); Hosts of *Tenuipalpidae*, Pritchard & Baker.

Acari of stored products.—Amaro & Soares de Gouveia; Monterio Guimaraes; Parameswaran Pillai.

Transmission of disease.—*Derma-centor andersoni* vector of paralysis in dog, Murnaghan (1); *Ixodes rubicundus* causing paralysis, Stampa & Toit; *Ornithodoros moubata* and *Borrelia duttoni*, Aeschlimann; *Ornithodoros* vectors of spirochaets, Skrinnik & Filipova (1); Ticks in Hungary, Kotlan; Ixod. of Argentina, Boero; *Dermanyssus gallinae* transmit *Atoxoplasma*, Lainson; *Megninia ginglymura* causing depilating itch, Alwar et al.; *Trombicula* spp. vectors of scrub typhus, Audy (2); Mite vectors of rickettsia, Piontkovskaya & Korshunova; *Garmania bulbicola* transmits fungus, Himelick & Curl.

Parasitism: general.—Localization of disease, Audy (3).

Parasitism: host lists.—Ixod. of Cameroons, Morel & Mouchet (1); *Haemaphysalis inermis* in Czechoslovakia, Mačička.

Host specificity.—Bird nasal mites, Strandtmann; Ixod. in Bechuanaland, Zumpt.

Host relationship.—Acar. off *Permoyscus*, Allred.

Medical importance.—Acar., Lorenzo.

Technique: Collecting methods.—Aran., Bristowe; Acar., Ignoffo; Trapping, sampling *Bryobia* spp., Morgan & Anderson (1); Mechanical time-sorting of pitfall traps, Williams; Collecting and mounting Hydrach, Darby; Acari and Tardig., Balogh (3); Sampling method for Acar., Wallace.

Technique: Culture.—*Aceria tulipae*, del Rosario & Sill; *Bdellonyssus bacoti*, Scott, J. A.; *Bryobia* spp., Morgan & Anderson (1); Gamasids, Lange; Trombiculids, Hsu et al.; Tyroglyphids, Rivard; Bloodsucking Acar., Tarshis (1).

Hibernation.—Ticks, Belikova.

Moult.—Solif., Junqua.

Introduced Arach.—Aran. & Acar. into France, Commeau & Marre.

Behaviour.—Scorp., Solif., Pseudoscorp., Uropyg., Opil., Aran., Acar., Cloudsley-Thompson (3); Temperature adaptive behaviour in *Opistophthalmus latimanus*, Alexander & Ewer; Drinking by scorpions, Cloudsley-Thompson; Pseudoscorp., Cloudsley-Thompson (2); Mesostigmata, Strandtmann & Wharton (1); *Myrmonyssus phalaenocetes*, Treat (1), (3); *Ornithodoros erraticus*, El-Ziady.

Economics.—*Demodex* in leather industry, Polyakov.

Control.—*Latrodectus tredecimguttatus*, Selens et al.; Scorp., Stahnke; *Acarus siro*, Cleland; *Acarus siro*, Melville; *Acarapis woodi*, Bailey & Carlisle; *Acarapis woodi*, Jaycox; *Aceria tulipae*, Kantack & Knutson; *Anoetus* sp. and Pyemotidae, Mulla; *Dermanyssus gallinae* and *Ornithonyssus sylviarum*, Rodriguez & Riehl; *Dermatophagoidea scheremetewskyi*, Baker; *Eriophyes vitis*, Jenkins; *Myobia musculi*, Haakh; *Megninia cubitalis*, Svetličić; *Ornithonyssus bacoti*, Scott, H. G.; *Phyllocoptrus oleivora*, Johnson et al. (2); *Steneotars-nemus pallidus*, Haramoto & Boyle; *Tarsonemus pallidus*, Vrie (1); *Tyrophagus lintneri* on fungal cultures, Curl.

Control: Tetranychidae.—Abo-El-Ghar & Boudreaux; Alfaro; Andres & Reynolds; Edgar; English & Snetsinger; Bondarenko; Chaboussou & (1); Chaboussou & Ramadier (2); Cleveland; Cutright; Jenkins (1); Jeppson et al. & (1); Johnson (1); King & Johnson; McClellan et al.; Martino; Mistric & (1); Nagarajan; Prasad & Prasad; Semel; Whitnall.

Control: Ixodoidea.—Collado; Gadalin et al.; Geerts et al.; Gladkikh et al.; Lancaster; Mishin & (1); Nitkina; Norris, K. R.; Onufriev; Pavlovsky & Skrinnik; Petunin; Roulston et al.; Stone & Meyers; Vashkov et al.; Whitehead, G. B.

DISTRIBUTION PALAEARCTIC REGION

Iceland.—Aran., Brændegård.

Great Britain.—Arach., Mackie; Arach., Whatmough; Aran., Acar., Chant; Aran., Bristowe; Aran., Cloudsley-Thompson (1); Aran., Cloudsley-Thompson & Sankey (4); Aran., Dawson, R. W. B.; Aran., Duffey et al.; Aran., Locket et al.; Acar., Massee; Aran., Sankey; Aran., Wild; Acar., Bradley; Acar., Chant (2); Acar., Evans (2); Acar., Hughes; Acar., Milne, S.; Acar., Moreton; Acar., Seyd; Acar., Sheals; Hydrach., Darby (1).

France.—Opil., Dresco (1), (3), (6); Opil., Derouet & Dresco (1); Opil., Juberthie (1); Opil., Juberthie & Juberthie-Jupeau (2); Opil., Aran., Balazuc & Dresco; Opil., Aran., Derouet & Dresco (2); Aran., Denis (1), (2), (3), (4); Aran., Dresco & (2); Aran., Lepointe; Acar., Grandjean (3); Acar., Schuster (1); Acar., Travé; Tardig., Fize.

Belgium.—Aran., Denis; Aran., Keekenbosch & (1), (2), (3), (4); Acar., Cooreman; Acar., Fain; Tardig., Haspeslagh.

Luxemburg.—Aran., Keekenbosch (5); Aran., Muller; Hydrach., Besseling.

Netherlands.—Aran., Chrysanthus & (1); Hydrach., Besseling (1), (2).

Denmark.—Pantop., Wolff.

Sweden.—Aran., Hallander; Acar., Forsslund; Acar., Krezal; Acari., Sellnick (4).

Estonia.—Aran., Vilbaste.

Finland.—Acar., Karppinen & (1), (2), (3), (4).

Latvia.—Acar., Eglitis.

Lithuania.—Acar., Eitminavičiute.

Portugal.—Acar., Baker (1); Acar. Monteiro Guimarães.

Spain.—Opil., Dresco (5); Aran., Dresco (2); Aran., Denis (5); Aran.,

Acar., Janetschek; Acar., Mihelčič (8), (11), (12), (13); Tardig., Mihelčič & (4).

Italy.—Pseudoscorp., Beier (1), (2), (3); Aran., Dresco (4); Acar., Chant (1); Acar., Forsslund; Acar., Kepka (1); Acar., Lombardini & (2); Acar., Sellnick (1); Acar., Valle; Ixod., Starkoff; Hydrach., Viets, K. O. (1); Tardig., Mihelčič (2); Tardig., Ramazzotti.

Switzerland.—Acar., Chant (1); Hydrach., Schwoerbel.

Germany.—Aran., Höregott; Aran., Kuhk & Rabeler; Acar., Dosse (1); Acar., Kepka; Acar., Korth; Acar., Märkel & Meyer (1); Ixod., Enigk (1); Hydrach., Viets, K. O. (2), (3), (4).

Bavaria.—Hydrach., Engelhardt.

Austria.—Pseudoscorp., Ressl & Beier; Aran., Kritscher; Aran., Nemenz; Acar., Kepka, (2); Acar., Mihelčič (10), (15), (16), (17), (18); Acar., Schuster; Hydrach., Viets, K. O.; Tardig., Mihelčič (2), (5), (14).

Hungary.—Opil., Aran., Kolosváry; Acar., Forsslund; Ixod., Kotlan; Hydrach., Poni & Ponyi.

Yugoslavia.—Aran., Hadži; Aran., Nikolić; Acar., Durkić; Acar., Tarman; Acar., Vražić; Ixod., Mihailov; Ixod., Zukovic & Wikerhauser (2).

Czechoslovakia.—Pseudoscorp., Verner & (1); Aran., Miller, F. (1), (2); Acar., Ambrus; Acar., Daniel & (1); Acar., Halašková; Acar., Kramář; Acar., Kunst; Acar., Mrčík & (1), (2); Acar., Mačíčka & Nosek (1); Acar., Prívora & Samšínák & (1); Acar., Samšínák & (1); Ixod., Černý; Ixod., Dyk & (1); Ixod., Grulich et al.; Ixod., Mačíčka; Hydrach., Dudich; Hydrach., Laska & (1); Hydrach., Lellak.

Poland.—Pseudoscorp., Opil., Aran., Acar., Rafalski (2); Arach., Kowalski; Aran., Blazejewski; Aran., Czajka; Acar., Kielczewski; Acar., Kozłowski (1), (2); Acar., Kozłowski & Zukowski (5); Opil., Rafalski & (1); Acar., Rajski; Acar., Wegner & Przyborowski; Acar., Zukowski & (2); Ixod., Lachmajer et al.

Rumania.—Palpig., Condé; Opil., Cirdei; Acar., Feider & (1), (2); Ixod., Feider et al. (3); Acar., Feider & Suciu (4); Hydrach., Motas et al. & (1); Ixod., Marcu.

Bulgaria.—Opil., Kratochvil & Miller (1); Opil., Kratochvil et al.; Aran., Miller, F.; Acar., Balogh & (2); Acar., Kunst & (2); Acar., Volgin; Acar., Vasilev.

Greece.—Aran., Beier et al. (5); Ixod., Pavlov & Boitschev.

USSR.—Acar., Bashkirova; Acar., Evseeva; Acar., Dubinin & Karpovitch (4); Acar., Piryaniuk; Acar., Razumova; Acar., Reithblatt; Acar., Shluger & Sosnina; Acar., Sitnikova; Acar., Vainstein; Acar., Venkova; Acar., Visotzkaya; Acar., Wainstein; Acar., Yakobashvili; Ixod., Grebenyuk (1); Ixod., Filippova & (1); Ixod., Kalita & Ovchinnikova; Ixod., Lazuk; Ixod., Mamikonyan; Ixod., Melnikova (1); Ixod., Polyakova & Volkova; Ixod., Rerberg; Ixod., Semenov; Ixod., Vshivkov; Ixod., Zolotaryev.

Kazak SSR.—Acar., Wainstein.

Kirghiz SSR.—Acar., Dubinin et al (3).

Corsica.—Opil., Juberthie.

Mallorca.—Acar., Pritchard & Baker.

Sardinia.—Palpig., Condé (1); Opil., Aran., Roewer; Acar., Lombardini (1).

Algeria.—Acar., Athias-Henriot & (1).

Cyrenaica.—Acar., Pritchard & Baker.

Morocco.—Scorp., Malhomme; Aran., Denis & Dresco (6); Acar., Gaud & (1); Acar., Vercammen-Grandjean.

Egypt.—Ixod., Hoogstraal & (1); Ixod., Hoogstraal & Kaiser (2), (3), (4). Acar., Said.

Siberia.—Ixod., Popov et al.

Mongolia.—Ixod., Emelyanova; Acar., Liu, C.-s.

Japan.—Pseudoscorp., Morikawa & (1); Opil., Suzuki & (1), (4), (5); Aran., Nakahira; Aran., Nakao & Okuma; Aran., Okuma; Acar., Fujita et al; Aran., Oi; Aran., Yaginuma & (1), (2), (3), (4), (5); Acar., Aoki, J. & (1), (2), (3); Acar., Asanuma & (1), (2); Acar., Asanuma & Saito (5); Ixod., Asanuma & Sakurai (6); Acar., Ehara & (1); Acar., Hayashi; Acar., Kamo; Acar., Kamo et al (1); Acar., Kano et al; Acar., Kato & Kitahara; Acar., Kawashima; Acar., Kitahara; Acar., Kumada & Kaneko; Acar., Pritchard & Keifer; Acar., Sasa & Kano (1); Acar., Sasa et

al & (2); Ixod., Asanuma & Fukuda (3); Ixod., Asanuma & Kōsaka (4); Hydrach, Imamura & (1).

Korea.—Aran., Paik (1); Acar., Higgins & Mulaik; Acar., Traub et al.; Ixod., Lee.

Afghanistan.—Scorp., Vachon (8).

Armenia SSR.—Ixod., Mamikonyan (1); Ixod., Martirosian; Ixod., Petrosian.

Azerbaijan, SSR.—Ixod., Abusalimov; Ixod., Reznik.

Tadzhik SSR.—Acar., Bregetova; Acar., Chernishev.; Acar., Sosnina (1) (2).

Transcaucasia.—Ixod., Skrinnik & Filippova.

Israel.—Acar., Pritchard & Baker; Ixod., Arthur.

Turkey.—Acar., Pritchard & Baker; Ixod., Kurtpinar.

Iran.—Scorp., Vachon (1).

Cape Verde Is.—Ixod., Meira et al.

AUSTRALIAN REGION & POLYNESIA

New Guinea.—Aran., Chrysanthus (2); Acar., Womersley (2).

Australia.—Acar., May & Webster.

Queensland.—Aran., Kleinschmidt; Acar., Domrow & (1); Acar., Pritchard & Baker; Acar., Womersley & (2), (3); Ixod., McCarthy; Ixod., Wilkinson.

Victoria.—Aran., Wakefield.

New South Wales.—Acar., Keifer; Acar., Mykytowycz & Hesterman (1); Acar., Womersley (3); Ixod., Bourke.

South Australia.—Acar., Womersley (3).

Central Australia.—Acar., Womersley (3).

Western Australia.—Acar., Toop.

New Zealand.—Acar., Dumbleton; Acar., Ramsay; Acar., Thomas & Watson; Acar., Womersley (1) (3).

British Solomon Is.—Scorp., Uropyg., Aran., Opil., Browning & Hyatt.

Mariana Is.—Acar., Beer.

Micronesia.—Scorp., Takashima.

Hawaii.—Acar., Pearce.

New Caledonia.—Ixod., Barrau & Devambez.

Papua.—*Pseudoscorp.*, Hoff & Parack.

Samoa.—Aran., Marples.

ORIENTAL REGION

India.—Scorp., Shrivastava; Aran., Dyal; Acar., Alwar et al.; Acar., Hiregauder & Bal; Acar., Khan & Murthy; Acar., Milne, P. S.; Acar., Sardar.

South India.—*Pseudoscorp.*, Subbiah et al; Acar., Rao & Hiregauder.

Nepal.—Acar., Evans & Hyatt (4).

Ceylon.—Acar., Parameswara Pillai.

Assam.—Acar., Pritchard & Baker.

China.—Acar., Chen & Hsu & (1); Acar., Chen et al. (2); Acar., Liu, C.-W. & Ixod., Dias (3).

Indochina.—Ixod., Dias (1).

Formosa.—Ixod., Tendeiro (1).

Selangor.—Acar., Evans & Hyatt (4).

Philippine Islands.—Acar., Pritchard & Baker.

Celebes.—Acar., Evans & Hyatt (4).

Sumatra.—Acar., Evans & Hyatt (4).

ETHIOPIAN REGION

Africa.—Ixod., Tendeiro (2).

East Africa.—Ixod., Wiley.

French Equatorial Africa.—*Pseudoscorp.*, Vachon (6); Acar., Taufflieb; Ixod., Arthur (1); Ixod., Morel.

Liberia.—Pentast., Gratama & Thiel.

Ivory Coast.—Acar., Till.

Cameroons.—Acar., Gaud & Mouchet (2); Acar., Lavoipierre; Acar., Till; Hydrach., Viets, K.; Ixod., Morel & Mouchet (1).

French Gaboon.—Arach., Lawrence (2).

Angola.—Uropyg., Lawrence (1); Acar., André; Acar., Balogh (1).

Principé.—Aran., Bacelar; Ixod., Tendeiro (3).

San Tomé.—Aran., Bacelar; Ixod., Tendeiro (3).

South Africa.—Scorp., Ambly., Solif., Aran., Lawrence (3); Acar., Chant (1); Acar., Zumpt & Till; Ixod., Arthur (1); Ixod., Theiler & Salisbury & (1); Hydrach., Münchberg.

S. Rhodesia.—Acar., Evans (1).

Bechuanaland.—Acar., Fain (6); Ixod., Zumpt.

Transvaal.—Acar., Ryke (1); Acar., Ryke & Meyer (2); Acar., Sellnick (2); Acar., Vercammen-Grandjean.

Zululand.—*Pseudoscorp.*, Beier; Acar., Till.

Natal.—*Pseudoscorp.*, Beier; Acar., Lavoipierre (1).

Sahara.—Scorp., Vachon (7).

Belgian Congo.—Uropyg., Lawrence (1); Acar., André; Acar., Balogh (1); Acar., Benoit & (1); Acar., Cooreman (2); Acar., Fain (2), (4), (5), (6); Acar., Taufflieb; Acar., Vercammen-Grandjean; Acar., Vercammen-Grandjean & Fain (1); Ixod., Pierquin & Niemegeers & (1); Hydrach, Münchberg (1).

Nyasaland.—Ixod., Arthur (1).

Sudan.—Acar., Franz; Acar., Ver- cammen-Grandjean.

Ethiopia.—Aran., Scott, H. (4).

Uganda.—Acar., Evans; Acar., Ver- cammen-Grandjean; Ixod., Arthur (1).

Ruanda-Urundi.—Acar., Fain (3); Ixod., Pierquin & Niemegeers & (1).

Tanganyika.—Acar., Balogh (1); Acar., Vercammen-Grandjean; Ixod., Arthur (1).

Zanzibar.—Acar., Vercammen- Granjean.

Mozambique.—Uropyg., Lawrence (1); Acar., Fain (6); Ixod., Dias (4).

Madagascar.—Acar., Grétillat (1).

Mauritius.—Palpig., Remy (3); Acar., Moutia; Acar., Pritchard & Baker.

Tristan da Cunha.—Ixod., Arthur (2).

NEARCTIC REGION

Greenland.—Aran., Holm.

Alaska.—Aran., Dondale (1); Aran., Edwards, R. J.; Acar., Konno.

Canada.—Aran., Edwards, R. J.; Aran., Turnbull; Ixod., Rich.

British Columbia.—Acar., Anderson et al. (2); Acar., Morgan & Anderson.

Nova Scotia.—Aran., Dondale; Acar., Herbert.

North America.—*Pseudoscorp.*, Hoff; Aran., Edwards, R. J.; Aran., Chamberlin & Gertsch (5).

Eastern United States of America.—Acar., Yunker (1).

Western North America.—Arach., Essig.

Alabama.—Acar., Hays & Guyton; Acar., Owen.

Arizona.—Aran., Barnes; Aran., Gertsch (1), (4); Acar., Pritchard & Baker.

California.—Aran., Gertsch (1), (3), (4); Acar., Beer (1); Acar., Brickhill; Acar., Chant (1); Acar., Dillon; Acar., Keifer; Acar., Kennett; Acar., Newell; Acar., Pritchard & Baker; Acar., Pritchard & Keifer; Acar., Sellnick (3); Acar., Strong & Okumura.

Colorado.—Aran., Dondale (1).

Florida.—Aran., Barnes; Acar., De Leon; Acar., Garman; Acar., Pritchard & Baker.

Georgia.—Acar., Smith & Love.

Maryland.—Aran., Lamore; Acar., Clark, G. M. (1); Acar., Dillon; Acar., Pritchard & Baker.

Massachusetts.—Acar., Nutting & Rauch; Acar., Treat.

Michigan.—Acar., Hughes & Jackson.

Missouri.—Acar., Enns.

Illinois.—Acar., Keifer; Ixod., Stannard & Pietsch.

Indiana.—Opil., Goodnight; Acar., Tipton & Boese; Ixod., Wilson, N. (1).

Kansas.—Acar., Hall; Hydrach., Mitchell & Mitchell (2).

Kentucky.—Acar., Wilson, N.

Nevada.—Aran., Gertsch (4).

New Mexico.—Acar., Cunliffe; Acar., Garman; Ixod., Schad.

New York.—Aran., Barnes; Acar., Chant (1); Acar., Hughes & Jackson.

North Carolina.—Acar., Chant (1); Acar., Pritchard & Baker.

Oklahoma.—Acar., Pritchard & Baker.

Oregon.—Acar., Garman; Acar., Krantz & (1).

Rhode Id.—Acar., Keifer.

Tennessee.—Acar., Hughes & Jack-
Acar., Atyeo.

Texas.—Pseudoscorp., Hoff; Aran., Barnes; Aran., Gertsch (1); Acar.,

Chant (1); Acar., Dillon; Acar., Garman; Acar., Hughes & Jackson; Ixod., Kohls; Ixod., Price.

Utah.—Aran., Levi; Acar., Allred & (2); Acar., Chant (1); Acar., Pritchard & Baker; Acar., Tibbets.

Virginia.—Pseudoscorp., Vachon (5); Acar., Hughes & Jackson; Acar., Pritchard & Baker.

Washington.—Acar., Newcomer; Acar., Newell.

CENTRAL AMERICA

Central America.—Aran., Buecherl.

British West Indies.—Hydrach., Cook.

Costa Rica.—Acar., Chant (1).

Cuba.—Aran., Archer; Aran., Gertsch (2); Acar., Allred (1); Acar., Garman; Ixod., Dias (3).

French Antilles.—Arach., Berland; Ixod., Floch & Fauran (1).

Haiti.—Aran., Archer; Acar., Garman.

Honduras.—Acar., Pritchard & Baker.

Jamaica.—Aran., Archer; Acar., Evans & Hyatt (4).

Mexico.—Scorp., Gertsch; Aran., Gertsch (2), (4); Aran., Forster; Acar., Beer & Lang (2); Acar., De Leon (1); Acar., Keifer; Acar., Pritchard & Baker; Ixod., Hoffmann; Ixod., Vargas.

Netherlands Antilles.—Acar., Sutmöller.

Nicaragua.—Acar., Hicks.

Panama.—Aran., Gertsch (2).

Puerto Rico.—Acar., Cromroy; Acar., Fox; Aran., Gertsch (2).

Trinidad.—Acar., Brennan.

SOUTH AMERICA

South America.—Aran., Buecherl.

Argentina.—Scorp., Buckup; Opil., Ringuelet & (1); Aran., Galiano; Aran., Pikelin & Schiapelli; Aran., Schiapelli & Pikelin & (1), (2), (3); Acar., Grasso; Acar., Hammer; Ixod., Boero.

Bolivia.—Acar., Hammer.

Brazil.—Aran., Galiano (2); Acar., Berla & (1); Acar., Davidson; Acar., Fonseca.

British Guiana.—Aran., Forster.
Chile.—Acar., Chant (1); Acar., Osse (1); Ixod., Tagle & Alvarez.
Colombia.—Pentast., Luque Forero.

French Guiana.—Acar., Floch & Beran (1).

Paraguay.—Acar., Berla (1).

Peru.—Acar., Brennan.

Uruguay.—Acar., Alber.

Venezuela.—Scorp., Boyer; Scorp., agert, B.; Ixod., Méndez & Ortiz (1); Ixod., Vergani.

Juan Fernandez.—Pseudoscorp., eier (4).

ANTARCTIC

Antarctica.—Acar., Dalenius & Wilson.

Chesterfield Is., South Pacific.—Ixod., Rageau & Vervent.

MARINE PANTOPPODA

Israeli Coast.—Stock & (1).

Indian Ocean.—Fage.

New Zealand.—Clark, W. C.

Kemadec Deep, Pacific Ocean.—age.

Siberia.—Losina-Losinsky & Turpaeva.

Pacific.—Turpaeva.

GEOLOGICAL

Tertiary.—Aran., Petrunkevitch; ran., Arac in California, Palmer et al.

Carboniferous.—Scorp., Anthracom. Nova Scotia, Copeland.

Cambrian.—Opil., Germany, Haupt.

MYRIAPODA

GENERAL LITERATURE

Text-books.—Fossil Myriap., Chavan & Cailleux.

Bibliography.—Diplop. of North America, Chamberlin & Hoffman (6).

STRUCTURE

External anatomy.—Principles of leg design in Diplop. & Chilop., Manton (1); sclerotization of body segments and

segmental appendages in Chilop. & Diplop., Snodgrass.

Musculature.—Limbs of Diplop., Manton (1).

Teratology.—*Lithobius forficatus*, Matic (5); Sexual anomaly in *Schizophyllum sabulosum*, Sahli.

PHYSIOLOGY

Nutrition.—*Thereuonema hilgendorfi* (Diplop.), Murakami.

Senses.—Function of eyes of Myriap., Duke-Elder; Chemo-reception in Myriap., Hodgson.

Secretion, external.—Exudate of Diplop. causing eye lesions, Haneveld; Exudate of Diplop. causing eye lesions, Hoeke & Kok.

Coloration.—Connective-tissue pigment of *Lithobius forficatus*, Needham.

Locomotion.—Lysiopetaloidae, Manton (1); Chilop. & Diplop. mechanisms, Snodgrass.

Various effects.—Myriopods, Pickard.

Effects of light & humidity.—Geophilids, Weil.

REPRODUCTION

Reproduction.—Chilop., Diplop., Cloudsley-Thompson (3); *Schizophyllum sabulosum*, Halkka.

DEVELOPMENT

Egg.—Geophilids, Weil.

Spermatogenesis.—*Plagiodesmus oaty-* *pus* and *Polydesmus complanatus*, Tuzet et al.

Post-embryonic development.—*Schizophyllum sabulosum*, Halkka; *Tachypodoiulus albipes*, Sahli (1).

Life history.—*Bothropolys asperatus*, Murakami; *Schizophyllum sabulosum*, Halkka.

EVOLUTION AND GENETICS

General works.—Chilop. & Diplop. mechanisms, Snodgrass; Locomotory mechanisms in Diplop. & Chilop., Manton (1).

Chromosome problems.—Cross mating of *Schizophyllum*, Raper et al.

ECOLOGY AND HABITS

Biology.—Geophilids, Weil.

Ecology.—*Schizophyllum sabulosum*, Halkka.

Soil ecology.—Chilop. of onion field in Egypt., El-Kif (2).

Ecological associations: Cavernicolous.—Chilop., Diplop. of France, Demange (3), (4), (5), (6); Chilop. & Diplop. in France and Switzerland, Demange (7); Chilop., Diplop., of France, Derouet & Dresco (2); *Lithobius* in France, Matic (2); Diplop. of France, Ribaut; Symph. of France, Juberthie & Juberthie-Jupeau (2); Chilop. of Spain, Matic (1); Diplop. of Spain, Ribaut (1); Myriap. in Poland., Kowalski; Diplop. of Rumania, Ceua; Diplop. of Assam., Manfredi (2); *Polydesmus* (S.), dumitrescui, P. (S), oltenicus, P. (P.) microcomplanatus, Negrea & Tabacaru; *Polymicrodon balazuci* and *Scutogona* (?) album, Schubart (3); *Scolopocryptops ferrugineus guacharensis*, Manfredi (1); *Tetracion jonesi jonesi*, T. jonesi antraeum and *Troglocambala loomisi* (Diplop.), Hoffman (3).

Seasonal activities.—*Polydesmus denticulatus*, *Brachyiulus littoralis*, *Cylindroiulus frisius*, Barlow.

Migration.—Chilop. and Diplop. entering houses, Scott, H. (1), (2); *Humero-bates rostrolamellatus* invading house, Scott, H.; Aggregation of *Zinaria butleri*, Young.

Distribution.—Vertical distribution of Myriapoda, El-Kif; *Polydesmus denticulatus*, *Brachyiulus littoralis* and *Cylindroiulus frisius*, Barlow; *Polymicrodon* spp., Schubart (3).

General habits.—Lysiopetaloidae, Manton (1).

Feeding habits.—Chilop., Diplop., Cloudsley-Thompson (3); Geophilids, Weil; Prey of *Thereuoneuma hilgendorfi*, Murakami.

Care of young.—Geophilids, Weil.

Enemies:—Of Chilop., Diplop., Cloudsley-Thompson (3); Of Geophilids, Weil; Chilop. prey of lizard, Cnemidophorus, Milstead; Gregarines parasites of Diplop., Tuzet et al (4); Trichomycetes parasites of Diplop., Tuzet et al (3); Ciliates parasites of Diplop., Tuzet et al (2); *Muscicapa hypoleuca muscipeta*

(fly-catcher) feeding on Chilop. & Diplop., Berndt & Rapsch; Parasites of Myriapoda, Jeekel et al.

Commensalism.—Fungi in hindgut of *Euryurus erythropygus* & *Apheloria iowa*, Lichtwardt; Fungus in *Scytonotus granulatus*, Lichtwardt (1); Fungus in hindgut of *Boraria carolina*, Lichtwardt (2); Fungus in Diplopoda, Tuzet & Manier (1).

Behaviour.—Chilop., Diplop., Cloudsley-Thompson (3); Myriopods, Pickard.

Economics.—Millepedes damage crops, Puttarudriah; *Blaniulus guttulatus* attacking sugar beet, Jones.

DISTRIBUTION PALAEARCTIC REGION

Great Britain.—Diplop., Blower; Diplop., Cloudsley-Thompson & Sankey (4); Diplop., Eaton.

France.—Chilop., Diplop., Demange (3), (5), (7); Chilop., Demange (4); Diplop., Demange (6); Chilop., Diplop., Derouet & Dresco (2); Chilop., Lebrun; Chilop., Matic (2); Diplop., Ribaut; Diplop., Schubart (3); Symph., Juberthie & Juberthie-Jupeau (2); Paurop., Remy & Balland (4).

Luxemburg.—Diplop., Hoffman.

Switzerland.—Chilop., Demange (7).

Spain.—Chilop., Matic (1); Diplop., Ribaut (1); Symph., Scheller.

Italy.—Chilop., Diplop., Manfredi; Diplop., Strasser (1).

Czechoslovakia.—Chilop., Borek (1); Chilop., Dobroruka & (1), (4), (5); Diplop., Lang.; Symph., Dobroruka (3).

Germany.—Chilop., Matic (3).

Austria.—Diplop., Strasser.

Poland.—Myriap., Kowalski; Diplop., Brodniewicz.

Rumania.—Chilop., Matic (4), (5), (6); Diplop., Ceua; Diplop., Negrea & Tabacaru; Diplop., Tabacaru.

USSR.—Chilop., Dobroruka (6); Chilop., Folkmanova.

Baleairic Is.—Diplop., Paurop., Colom.

Morocco.—Chilop., Demange (1), (2).

Korea.—Chilop., Diplop., Symph., Paik.

Japan.—Diplop., Miyosi & (1), (2), (3), (4); Diplop., Takashima & Shino-hara (1).

ORIENTAL REGION

Assam.—Diplop., Manfredi (2).

Formosa.—Chilop., Diplop., Wang; Diplop., Wang (1), (2).

AUSTRALIAN REGION AND POLYNESIA

New Guinea.—Diplop., Demange.

New Zealand.—Diplop., Dawson, E. W.; Diplop., Holloway.

British Solomon Is.—Chilop., Diplop., Chamberlin (2); Chilop., Browning & Hyatt.

ETHIOPIAN REGION

West Africa.—Diplop., Hoffman (6).

Gambia.—Paurop., Remy (1).

Senegal.—Paurop., Remy.

Angola.—Diplop., Kraus (1); Symph., Juberthie-Jupeau.

Belgian Congo.—Chilop., Dobroruka (2); Chilop., Diplop., Jeekel et al.; Symph., Juberthie-Jupeau; Chilop., Diplop., Kraus; Diplop., Kraus (1).

Tanganyika Territory.—Chilop., Diplop., Kraus (3).

Transvaal.—Diplop., Lawrence; Diplop., Schubart (2).

Cape Province.—Diplop., Schubart (2).

Natal.—Chilop., Diplop., Lawrence; Diplop., Schubart (2).

Basutoland.—Diplop., Schubart (2).

Zululand.—Chilop., Diplop., Lawrence.

NEARCTIC REGION

Newfoundland.—Chilop., Diplop., Pal-mén.

North America.—Chilop., Crabill; Diplop., Chamberlin & Hoffman (6).

Alabama.—Diplop., Hoffman (3), (5).

Arkansas.—Diplop., Causey.

Arizona.—Diplop., Chamberlin (1).

California.—Chilop., Chamberlin (4); Diplop., Causey (1).

Florida.—Chilop., Chamberlin; Diplop., Causey.

Indiana.—Diplop., Young.

North Carolina.—Diplop., Hoffman (1).

Oklahoma.—Chilop., Crabill (3).

Tennessee.—Chilop., Crabill (2); Diplop., Hoffman.

Virginia.—Diplop., Hoffman (4).

Wisconsin.—Chilop., Crabill (1).

CENTRAL AMERICA

Panama.—Diplop., Loomis.

SOUTH AMERICA

Argentina.—Paurop., Remy (2).

Brazil.—Chilop., Chamberlin (3); Diplop., Schubart & (1), (4).

Venezuela.—Chilop., Chamberlin (3); Chilop., Manfredi (1).

Galapagos Is.—Chilop., Kraus (2).

GEOLOGICAL

Carboniferous.—Diplop. of Nova Scotia, Copeland.

Palaeozoic.—Diplop. of Ohio & Texas, Baird.

ONYCHOPHORA

General works.—Darteville.

Nervous system.—Neurosecretion in *Peripatopsis moseleyi*, Sanchez.

Respiration.—Oxygen consumption, Mendes & Sawaya.

Senses.—Function of eyes, Duke-Elder.

Ecology.—Observations on living specimens in Trinidad, Alexander.

DISTRIBUTION

Trinidad.—Alexander.

III.—SYSTEMATIC INDEX

CHELICEROPHORA nom. nov. p. 884, Dubinin; Classification p. 83, Dubinin (2).

TRICHOCHELICERAE ser. nov. p. 84, Dubinin (2).

MEROSTOMATA

XIPHOSURA

†*Belinurus grandaevus* p. 48 figs.;
B. reginae p. 48 figs., Copeland.

†*Euproops amiae* p. 49 figs.; *E. cf. danae* p. 49 figs., Copeland.

Limulus polyphemus p. 101 figs., Ankel; *L. polyphemus*, habits and movement p. 153 figs., Ankel (1).

EURYPTERIDA

†EURYPTERIDA gen. & sp. indet., upper Silesia coal, Lower Namur, Belgium p. 113 fig., Schwarzbach.

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†MARSUPIPTERINAE subfam. nov. Stylonuridae p. 48, Novozhilov.

†*Carcinosoma newlini* redescribed p. 295 figs., Kjellesvig-Waering.

†*Chacharejocaris punctatus* p. 239 figs., Andreeva.

†*Erieopterus* gen. nov. [Eurypteridae] p. 1110; type species *Eurypterus microphthalmus* Hall p. 1111 figs.; *E. hypsophthalmus* sp. nov. Silurian, Lake Erie, Ohio p. 1112 figs.; *E. limuloides* p. 1115 fig.; *E. microphthalmus eriensis* p. 1115 figs., Kjellesvig-Waering (1).

†*Eurypterus loi* sp. nov., Lower Sitan formation, Middle Silurian, Hupeh Prov., China p. 449 figs.; *E. styliformis* sp. nov. Lower Sitan formation, Hupeh Prov., China p. 449 figs.; *E. yangi* sp. nov. Lower Sitan formation, Hupeh Prov., China p. 448 figs., Chang; †*E. ornatus* sp. nov. Silurian, Fayette Co., Ohio p. 939 figs., Leutze; †*E. pittsfordensis* p. 1124 figs.; *E. remipes lacustris* subsp. nov. Silurian, Genesee Co., New York p. 1126 fig.; *E. remipes lacustris* p. 1127 figs.; *E. remipes quebecensis* subsp. nov. Silurian, Quebec, Canada p. 1130 fig.; *E. remipes remipes* p. 1131 figs.; *E. remipes swartzii* subsp. nov. Silurian, Riverside, West Virginia p. 1134 figs., Kjellesvig-Waering (1); †*E. brasdorensis* p. 50 fig.; *E. sp.* p. 50 figs., Copeland; †*E. fragments* p. 119 figs., Eisenack.

†*Hughmilleria conica* redescribed p. 202 figs., Lamont.

†*Mixopterus dolichoschelus* suppl. descript. p. 204 figs., Lamont; †*M.*

sp. Lower Sitan formation, Middle Silurian, Hupeh Prov., China p. 450 figs., Chang.

†*Polystomurum* gen. nov. [Styelonuridae: Marsupipterinae] p. 49; type species *P. stormeri* sp. nov. Devonian, Voronezh Prov., SSSR. p. 49 figs., Novozhilov.

†*Pterygotus (Acutiramus) perryensis* sp. nov. Silurian, Fayette Co., Ohio p. 938 figs., Leutze.

†*Rhenopterus matarakensis* sp. nov. Devonian, Kotlovin Lake, Siberia p. 210 figs.; *R. schiraensis* sp. nov. Devonian, Kotlovin Lake, Siberia p. 211 figs.; *R. sp.* p. 211 figs., Pirozhinkov.

†*Slimonia acuminata* var. *hendersoni* var. nov. Silurian, Pentland Hills, Scotland p. 203 figs., Lamont.

†*Stylonurus knoxae* sp. nov. Silurian, Pentland Hills, Scotland p. 208 fig.; *S. ornatus* discussed p. 209 figs.; *S. cf. macrophthalmus* discussed p. 210 fig., Lamont.

†*Yohoia* sp. p. 1292 fig., Voropinov.

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†*Palaeophonous* (emend. of *Palaeo-*
phonous) Lindström & Thorell, placed
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nov.) type species *Nemastoma hispanum*
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Argenna lorna sp. nov. ♀ Mt. Washburn, Wyoming p. 12 figs.; *A. yakima* sp. nov. ♂ White River, Washington p. 11 figs.; *A. obesa* ♀. ♂ p. 10 figs.; *A. saphes* ♂ described, ♀ p. 13 figs., Chamberlin & Gertsch (5).

Argennina unica ♀ p. 17 fig., Chamberlin & Gertsch (5).

Argyope aetherea ♀. ♂ p. 242 figs.; *A. catenulata* ♀. ♂ p. 240 figs.; *A. picta* ♀. ♂ p. 237 figs., Chrysanthus (2).

Argyroaster nom. nov. pro *Argyria* Yaginuma 1957 preocc. p. 37, Yaginuma (1).

†*Astodipoena* gen. nov. [Theridiidae: Dipoeninae] p. 201; type species *A. crassa* sp. nov. ♂ in Baltic amber p. 201 figs., Petrunkevitch.

Atea lewisi sp. nov. ♀ Portland, Parish, Jamaica p. 17 figs., Archer.

Atrax robustus new to Victoria p. 174 figs., Wakefield.

Atypus affinis ♂ new to Sweden p. 72 figs., Hallander; *A. affinis* ♂ p. 72 fig., Hallander (1); *A. karschi*, development p. 73 figs., Yoshikura (1); *A. muralis* ♂ new to Poland p. 11 figs., Blazejewski.

Aulacocyba subitanea new to Iceland p. 49 figs., Brændegård.

Austrochilus manni ♂. ♀ p. 20 figs., Gertsch (3).

†*Auximus succini* p. 123 figs., Petrunkevitch.

Avicularia avicularia ♂ p. 404 figs.; *A. bicegoi* ♂ p. 404 figs.; *A. hirsuta* ♂ p. 404 figs., Buecherl.

Bertrana farri sp. nov. ♂. ♀ Hardwar Gap, Jamaica p. 11 figs., Archer.

Bigois palmarum sp. nov. ♀ Misiones, Argentina p. 208 figs.; key to species p. 211, Schiapelli & Pikelin (2).

Bolyphantes index p. 82 fig., Brændegård.

Butantania hirsuta ♂ p. 388 fig., Buecherl.

Calopelma brasiliiana ♂ p. 388; *C. insulare* ♂ p. 389 figs., Buecherl.

Cathaistela gen. nov. [Argiopidae] p. 16; type species *C. ventricosa* (L. Koch) p. 17, Archer.

Celaenia excavata, cocoon construction p. 84, Willis.

Centromerus andrei sp. nov. ♀. ♂ Cova fosca de Villanova, Lerida, Spain p. 99 figs.; *C. balazuci* sp. nov. ♀ Grotte de Tourange, Ardèche, France p. 97 fig.; *C. paradoxus* ♀. ♂ p. 95 figs.; *C. satyrus* ♀. ♂ p. 95 figs., Dresco (2); *C. quericola* sp. nov. ♀ Strurovo, Czechoslovakia p. 83 figs.; *C. sphagnicola* sp. nov. ♀ Kardasova Recice, Czechoslovakia p. 79 figs.; *C. unidentatus* sp. nov. ♂ Dráchov, Czechoslovakia p. 80 figs.; *C. aequalis* p. 88 figs.; *C. alnicola* p. 84 figs.; *C. arcanus* p. 88 figs.; *C. capucinus* p. 89 figs.; *C. dilutus* p. 89 figs.; *C. expertus* p. 88 figs.; *C. incilius* p. 86 figs.; *C. jacksoni* p. 87 figs.; *C. levitarsis* p. 89 figs.; *C. pubulator* p. 88 figs.; *C. sellarius* p. 86 figs.; *C. serratus* p. 87 figs.; *C. setosus* p. 90 figs.; *C. silvicola* p. 90 figs.; *similis* p. 86 figs.; *strandii* p. 90 figs.; *C. sylvaticus* p. 86 figs.; key to species p. 73, Miller, F. (1); *C. aequalis* ♀ new to Belgium p. 7 fig.; *C. arcanus* ♀. ♂ new to Belgium p. 8, Denis; *C. prudens* new to Iceland p. 81 fig., Brændegård.

Ceraticelus berthoudi sp. nov. ♂. ♀ Clear Creek Co., Colorado p. 155 figs.; *C. silus* sp. nov. ♂. ♀ Southeast Wrangell, Alaska p. 156 figs.; *C. atriceps* p. 156 figs.; *C. bulbosus* p. 156 fig.; *C. rowensis* p. 156 figs., Dondale (1).

Ceratinella brevipes p. 39 fig., Brændegård.

Chiracanthium inclusum ♀. ♂ p. 368 figs.; *C. mildei* ♀. ♂ p. 371 figs., Edwards; *C. pennyi* ♂ new to Belgium p. 5, Kekenbosch (4).

Clubiona bishopi sp. nov. ♂ Durbin, West Virginia p. 413 figs.; *C. estes* sp. nov. ♀ Rocky Mountain National Park, Colorado p. 415 figs.; *C. gertschii* sp. nov. ♂ Mt. Washington, New Hampshire; ♀ Mt. Katahdin, Maine p. 408 figs.; *C. janae* sp. nov. ♀ San Mateo Co., California p. 394 figs.; *C. odelli* sp. nov. ♀ North Creede, Colorado p. 416 figs.; *C. opeongo* sp. nov. ♀ Algonquin Park, Ontario p. 412 figs.; *C. abbotii* *abbotii* ♀. ♂ p. 417 figs.; *C. abbotii* *abbotoides* ♀. ♂ p. 420 figs.; *C. adjacens* ♂ p. 408 figs.; *C. bryantae* ♀ p. 402 figs.; *C. bufonis* Chamberlin 1925 ♂ = *C. a. abbotii* p. 418; *C. californica* ♀. ♂ p. 404 figs.; *C. canadensis* ♀. ♂ p. 406 figs.;

C. catarwa ♀. ♂ p. 426 figs.; *C. chippewa* ♂ p. 397 figs.; *C. dyasia* ♂ p. 430 figs.; *C. furcata* ♀. ♂ p. 395 figs.; *C. hilltonia* Chamberlin & Ivie ♂ = *C. procteri* p. 425; *C. johnsoni* ♀. ♂ p. 422 figs.; *C. kagani* ♀ p. 425 figs.; *C. kastoni* ♀. ♂ p. 414 figs.; *C. kiowa* ♀. ♂ p. 428 figs.; *C. kulczynskii* ♀. ♂ p. 403 figs.; *C. littoralis* ♀. ♂ p. 412 figs.; *C. maritima* ♀. ♂ p. 432 figs.; *C. mimula* ♀. ♂ p. 397 figs.; *C. mixta* ♀. ♂ p. 400 figs.; *C. moesta* ♀. ♂ p. 393 figs.; *C. mutata* ♀. ♂ p. 429 figs.; *C. newmani* ♂ p. 423 figs.; *C. nicholsi* ♀. ♂ p. 424 figs.; *C. norvegica* ♀. ♂ p. 405 figs.; *C. obesa* ♀. ♂ p. 398 figs.; *C. obtusa* Emerton ♂. ♀ = *C. trivalis* p. 391; *C. oteroana* ♀ p. 429 figs.; *C. pikei* ♀. ♂ p. 420 figs.; *C. plumbi* ♀. ♂ p. 411 figs.; *C. pomoa* ♀. ♂ p. 421 figs.; *C. praematura* ♀. ♂ p. 396 figs.; *C. procteri* ♀. ♂ p. 425 figs.; *C. pygmaea* ♀. ♂ p. 392 figs.; *C. rowani* Gertsch 1941 ♀ = *C. furcata* p. 395; *C. rileyi* ♀ p. 402 figs.; *C. rhododendri* ♂ p. 410 figs.; *C. riparia* ♀. ♂ p. 430 figs.; *C. saltitans* ♀. ♂ p. 427 figs.; *C. spiralis* ♀. ♂ p. 401 figs.; *C. triloba* Banks 1906 ♀ = *C. obesa* p. 398; *C. trivalis* ♀. ♂ p. 390 figs.; *C. transversa* Bryant 1936 = *C. maritima* p. 433; key to species p. 384, Edwards; *C. frutetorum* ♂. ♀ new to Belgium p. 294, Kekenbosch (2); *C. germanica*, *C. neglecta*, *C. similis* p. 111 figs., Chrysanthus; *C. kurilensis* ♂ p. 74 figs., Yaginuma (5).

Clubionoides gen. nov. [Clubionidae: Clubioninae] p. 375; type species *Clubiona excepta* L. Koch p. 377 figs.; *C. dorothea* ♀. ♂ p. 381 figs.; *C. kohlsi* ♀ p. 379 figs.; *C. mulaiki* ♀. ♂ p. 379 figs.; *C. texana* ♀. ♂ p. 380 figs.; key to species p. 376, Edwards.

Cnephalocotes obscurus p. 47 figs., Brændegård.

†*Concursator* gen. nov. [Clubionidae incertae sedis] p. 326; type species *C. nudipes* sp. nov. ♀ in Baltic amber p. 328 figs., Petrunkevitch.

Cryptoeeca silvicola ♀. ♂ new to Belgium p. 130, Kekenbosch.

†*Cryptoplanus* gen. nov. [Clubionidae incertae sedis] p. 323; type species *C. paradoxus* sp. nov. ♂ in Baltic amber p. 323 figs., Petrunkevitch.

Ctenium scoticum ♂ new to Britain p. 139 figs., Locket et al.

Cybaeus aquilonalis sp. nov. ♂ Hiyamizutoge, Japan p. 76 fig.; *C. magnus* sp. nov. ♀ Mt. Osore, Japan p. 75 figs., Yaginuma (5).

Cyclosoma japonica ♀ p. 71 fig., Yaginuma (5).

Cyclososoma gen. nov. [Araneidae: Theridiosomatinae] p. 257; type species *C. succini* sp. nov. ♀ in Baltic amber p. 257 figs., Petrunkevitch.

Cyrtarachne bufo p. 265 fig.; *C. inaequalis* p. 265 fig.; *C. nagasaciensis* p. 266 fig.; *C. yunoharuensis* p. 266 fig., Yaginuma (3).

Cyrtopholis angustatus ♂ p. 389 fig.; *C. longistylus* ♂ p. 390 figs.; *C. schusterae* ♂ p. 390 figs., Buecherl.

Cyrtophora alayoi sp. nov. ♂ ♀ Oriente Province, Cuba p. 9 figs., Archer; *C. citricola*, biology and web-building p. 181 figs., Kullmann; *C. exanthematica* ♂ ♀ p. 14 figs.; *C. ikomosanensis* ♂ ♀ p. 13 figs.; *C. moluccensis* ♂ ♀ p. 13 figs., Yaginuma (2).

Dactylopisthes digiticeps ♂ new to Austria p. 233 figs., Kritscher.

†*Dasumia subita* sp. nov. ♂ in Baltic amber p. 347 figs., Petrunkevitch.

Dictyna aiko sp. nov. ♂ Los Angeles, California p. 140 figs.; *D. ardea* sp. nov. sp. nov. ♂ ♀ Graham Mt., Arizona p. 109 figs.; *D. branchi* sp. nov. ♂ Twentynine Palms, California p. 109 figs.; *D. chitina* sp. nov. ♂ Chitina Valley, California p. 119 figs.; *D. dauna* sp. nov. ♂ ♀ Kendall, Florida p. 99 figs.; *D. joaquina* sp. nov. ♀ Madera Co., California p. 106 figs.; *D. klamath* sp. nov. ♂ ♀ Klamath, California p. 145 figs.; *D. linda* sp. nov. ♀ Los Angeles Co., California p. 148 figs.; *D. marissa* sp. nov. ♀ Marysville, California p. 147 figs.; *D. melva* sp. nov. ♂ ♀ Globe, Arizona p. 108 figs.; *D. mora* sp. nov. ♀ Mora, New Mexico p. 75 fig.; *D. nanda* sp. nov. ♀ San Diego Co., California p. 105 fig.; *D. osceola* sp. nov. ♀ Trilly, Florida p. 114 fig. *D. peon* sp. nov. ♂ ♀ Chiricahua Mts., Arizona p. 91 figs.; *D. pinalia* sp. nov. ♀ Coolidge Dam, Arizona p. 110 fig.; *D. pixi* sp. nov. ♂ ♀ Washington Crossing, New Jersey p. 54 figs.; *D. taltona* sp. nov. ♂ ♀ Imperial Co., California p. 98 figs.; *D. seminola* sp. nov. ♀ Florida City, Florida p. 114

fig.; *D. serena* sp. nov. ♂ ♀ Palo Alto, California p. 135 figs.; *D. shasta* sp. nov. ♂ ♀ Siskiyou Co., California p. 150 fig.; *D. shoshonea* sp. nov. ♂ ♀ Payette, Idaho p. 150 figs.; *D. varyna* sp. nov. ♂ ♀ St. George, Utah p. 57 figs. *D. varyna miranda* subsp. nov. ♂ ♀ Humboldt Co., California p. 58 fig.; *D. abundans* ♂ ♀ p. 93 figs.; *D. agressa* ♂ ♀ p. 68 figs.; *D. alaskae* ♂ ♀ p. 81 figs.; *D. altamira* ♂ ♀ p. 116 figs.; *D. ampla* ♂ ♀ p. 141 figs.; *D. angulata* ♂ ♀ p. 103 figs.; *D. annexa* ♂ ♀ p. 92 figs.; *D. annulipes* ♂ ♀ p. 123 figs.; *D. apachea* ♂ ♀ p. 71 figs.; *D. artemisia* ♂ ♀ p. 142 figs.; *D. arundinacea* ♂ ♀ p. 81 figs.; *D. bellans* ♂ ♀ p. 62 figs.; *D. bicornis* ♂ ♀ p. 59 figs.; *D. bostoniensis* ♂ ♀ p. 78 fig.; *D. borealis* ♂ ♀ p. 136 figs.; *D. borealis cavernosa* ♂ ♀ p. 137 figs.; *D. brevitarsus* ♂ ♀ p. 76 figs.; *D. calcarata* ♂ ♀ p. 65 figs.; *D. callida* ♂ ♀ p. 110 figs.; *D. capens* ♂ ♀ p. 122 figs.; *D. cebolla* ♂ ♀ p. 85 figs.; *D. cholla* ♂ ♀ p. 68 figs.; *D. coloradensis* ♂ ♀ p. 89 figs.; *D. completa* ♂ ♀ p. 138 figs.; *D. completoides* ♂ ♀ p. 139 figs.; *D. consulta* ♂ ♀ p. 146 figs.; *D. cornupeta* ♂ ♀ p. 141 figs.; *D. crocana* ♂ p. 121 figs.; *D. crosbyi* ♂ ♀ p. 77 figs.; *D. cruciata* ♂ ♀ p. 111 figs.; *D. decaprini* ♂ ♀ p. 121 figs.; *D. evicta* ♂ ♀ p. 122 figs.; *D. florens* ♂ ♀ p. 102 figs.; *D. foliae* ♂ ♀ p. 73 figs.; *D. formidolosa* ♂ ♀ p. 66 figs.; *D. francisca* ♂ ♀ p. 120 figs.; *D. gloria* ♂ ♀ p. 67 figs.; *D. hentzi* ♂ ♀ p. 115 figs.; *D. horta* ♂ ♀ p. 133 figs.; *D. hoya* ♂ ♀ p. 145 figs.; *D. idahoana* ♂ ♀ p. 90 figs.; *D. irei* ♂ ♀ p. 133 figs.; *D. jonesae* ♂ p. 123 figs.; *D. juno* ♂ ♀ p. 85 figs.; *D. lina* ♂ ♀ p. 142 figs.; *D. littoricolens* ♂ ♀ p. 147 figs.; *D. longispina* ♂ ♀ p. 63 figs.; *D. major* ♂ ♀ p. 82 figs.; *D. maxima* ♂ ♀ p. 130 figs.; *D. micro* ♂ ♀ p. 53 figs.; *D. minuta* ♂ ♀ p. 72 figs.; *D. moaba* ♂ ♀ p. 53 figs.; *D. mulegensis* ♂ ♀ p. 56 figs.; *D. nebraska* ♂ ♀ p. 79 figs.; *D. oasa* ♂ ♀ p. 151 figs.; *D. olympiana* ♂ ♀ p. 135 figs.; *D. orbiculata* ♂ p. 131 figs.; *D. oregonae* ♂ ♀ p. 144 figs.; *D. pallida* ♂ ♀ p. 52 figs.; *D. palomara* ♂ ♀ p. 152 figs.; *D. peragrata* ♂ ♀ p. 119 figs.; *D. personata* ♂ ♀ p. 95 figs.; *D. petrunkevitchi* ♀ p. 52 figs.; *D. phylax* ♂ ♀ p. 125 figs.; *D. pictella* ♀ p. 97 figs.; *D. piratica* ♂ ♀ p. 143 figs.; *D. provida* ♂ ♀ p.

55 figs.; *D. quadrispinosa* ♂ p. 80 figs.; *D. reticulata* ♂ ♀ p. 149 figs.; *D. rita* ♂ ♀ p. 58 figs.; *D. roscida* ♂ ♀ p. 101 figs.; *D. saepei* ♂ ♀ p. 92 figs.; *D. sancta* ♂ ♀ p. 86 figs.; *D. saylori* ♂ ♀ p. 104 figs.; *D. scotta* ♂ ♀ p. 107 figs.; *D. secuta* ♂ ♀ p. 97 figs.; *D. segregata* ♂ ♀ p. 57 figs.; *D. sierra* ♂ ♀ p. 96 figs.; *D. spathula* ♂ ♀ p. 51 figs.; *D. stulta* ♂ ♀ p. 106 figs.; *D. sublata* ♂ ♀ p. 127 figs.; *D. sublatoides* ♂ ♀ p. 116 figs.; *D. subspinicola* ♂ ♀ p. 72 figs.; *D. suprenans* ♂ ♀ p. 130 figs.; *D. sylvanica* ♂ p. 98 figs.; *D. terranea* ♂ ♀ p. 60 figs.; *D. terrestris* ♂ ♀ p. 70 figs.; *D. tridentata* ♂ ♀ p. 84 figs.; *D. tucsonia* ♂ ♀ p. 94 figs.; *D. uintana* ♂ ♀ p. 118 figs.; *D. volucipes* ♂ ♀ p. 87 figs.; *D. zaba* ♂ ♀ p. 133 figs., Chamberlin & Gertsch (5); *D. minutissima* sp. nov. ♂ ♀ Brno, Czechoslovakia p. 148 figs., Miller, F. (2).

Diguetia andersoni sp. nov. ♀ Mojave Desert, California p. 22; *D. mojavea* sp. nov. ♂ ♀ San Bernardino Co., California p. 20; *D. signata* sp. nov. ♀ Scottsdale, Arizona p. 22 fig.; *D. canities mulaiki* subsp. nov. ♀ ♂ Edinburg, Texas p. 12 figs.; *D. canities* ♀ ♂ p. 6 figs.; *D. albolineata* ♀ ♂ p. 16 figs.; *D. imperiosa* ♀ ♂ p. 18 figs.; key to species p. 4, Gertsch (1).

Dinopis amica sp. nov. ♂ Misiones, Argentina p. 63 figs.; List of American species p. 67, Schiapelli & Pikelin (3).

Diplocentria bidentata new to Iceland p. 58 fig., Brændegård.

Diplocephalus cristatus p. 52 figs., Brændegård.

Diplothelopsis decarloi ♂ p. 387 fig.; *D. hastatus* ♂ p. 387 fig., Buecherl.

Diplura bicolor ♂ p. 385 figs., Buecherl.

Dipoena castrata p. 70 fig., Yaginuma (5).

Drassodes albicans ♀ p. 278 fig.; *D. rubidus* ♀ p. 279 fig., Denis (5).

Drepanotylus uncata new to Iceland p. 71 fig., Brændegård; *D. uncatus* ♂ ♀ new to Belgium p. 129, Kekenbosch.

Ectatosticta davidi ♂ ♀ p. 13 figs., Gertsch (3).

†*Elucus quaeitus* sp. nov. ♂ in Baltic amber, p. 249 figs.; *E. redemptus* sp. nov. ♂ in Baltic amber p. 245 figs., key to species p. 245, Petrunkevitch.

Entelecara erythropus p. 44 fig., Brændegård.

†*Eocryphoeca gracilipes* ♂ ♀ p. 126 figs., Petrunkevitch.

†*Eocydrele* gen. nov. [Cydrelinae, Zodariidae] p. 120; type species *E. mortua* sp. nov. ♂ in Baltic amber p. 120 figs., Petrunkevitch.

†*Eodipoena consulto* sp. nov. ♂ in Baltic amber p. 178 figs.; *E. germanica* sp. nov. ♂ in Baltic amber p. 181 figs.; *E. kästneri* sp. nov. ♀ in Baltic amber p. 184 figs.; *E. nielseni* sp. nov. in Baltic amber, p. 188 figs.; *E. regalis*, sp. nov. ♂ in Baltic amber p. 190 figs.; *E. oculata* ♀ p. 177 figs.; *E. key to species* p. 176, Petrunkevitch.

†*Eodoter* gen. nov. [Clubionidae: Corinninae] p. 317; type species *E. magnificus* sp. nov. ♂ in Baltic amber p. 318 figs., Petrunkevitch.

†*Eohahnia* gen. nov. [Hahniidae] p. 359; type species *E. succini* sp. nov. ♀ in Baltic amber p. 359 figs., Petrunkevitch.

†*Eomactator* gen. nov. [Gnaphosidae] p. 331; type species *E. mactatus* sp. nov. ♂ in Baltic amber p. 332 figs., Petrunkevitch.

†*Eomazax* gen. nov. [Clubionidae: Micariinae] p. 302; type species *E. pulcher* sp. nov. ♂ in Baltic amber p. 302 figs., Petrunkevitch.

†*Eomeba* gen. nov. [Araneidae: Metinae] p. 229; type species *E. samlandica* sp. nov. ♂ in Baltic amber p. 230 figs.; *E. longipes* sp. nov. ♂ in Baltic amber p. 233 figs.; *E. aberrans* sp. nov. ♂ in Baltic amber p. 236 figs.; *E. robusta* sp. nov. ♀ in Baltic amber p. 239 figs.; key to species p. 229, Petrunkevitch.

†*Eomysmena stridens* sp. nov. ♂ in Baltic amber p. 172 figs.; *E. baltica* p. 169 figs.; *E. moritura* ♂ p. 166 figs., Petrunkevitch.

†*Eophrurolithus* subgen. nov. see *Phrurolithus*, Petrunkevitch.

†*Eopisaurella* gen. nov. [Pisauridae] p. 139; type species *E. valdespinosa* sp. nov. ♀ in Baltic amber p. 139 figs., Petrunkevitch.

†*Eoprychia* gen. nov. [Eusparassidae: Clasteinae] p. 280; type species *E. succini* sp. nov. ♂ in Baltic amber p. 280 figs., Petrunkevitch.

†Ephalmator eximius sp. nov. ♀ in Baltic amber p. 208 figs., Petrunkevitch.

Episinus kitazawai sp. nov. ♀ Osoreyama, Japan p. 75 figs., Yaginuma (5).

Erigone atra p. 60 figs.; *E. arctica maritima* p. 62 fig.; *E. longipalpis* p. 63 fig.; *E. capra* p. 60 fig., Brændegård.

†Ero aberrans sp. nov. ♂ in Baltic amber p. 265 figs.; *E. permunda* ♂ p. 263 figs., Petrunkevitch.

†Esuritor aculeatus sp. nov. ♀ in Baltic amber p. 136 figs., Petrunkevitch.

Euophrys browningi ♀ described Suffolk, England p. 137 fig., Locket et al.

Eupalaestrus tarsicrassus ♂ p. 399 figs.; *E. tenuitarsis* ♂ p. 400 fig., Buecherl.

Euryelma dubium ♂ p. 392 figs.; *E. latens* ♂ p. 393 figs.; *E. rubropilosum* ♂ p. 393 figs., Buecherl.

Evophrys patellaris sp. nov. ♂. ♀ Corral de Veleta, Sierra Nevada, Spain p. 285 figs.; *E. alticola* ♀ p. 287 fig., Denis (5).

Gnaphosa lapponum p. 6 fig., Brændegård.

Gonatum rubens p. 45 figs., Brændegård.

Gongylidiellum latebricola ♂. ♀ new to Belgium p. 5 fig.; *G. vivum* ♀. ♂ new to Belgium p. 6, Denis.

Grammostola actaeon ♂ p. 394 figs.; *G. burzaquensis* ♂ p. 395 fig.; *G. iheringii* ♂ p. 395 fig.; *G. mollicoma* ♂ p. 395 fig.; *G. pulchripes* ♂ p. 396 fig.; *G. pulchripes pulchra* ♂ p. 396 fig., Buecherl.

Gypogyna forceps ♂. ♀ redescribed p. 29 fig., Galiano (2).

Hahnia corticicola ♀ p. 72 figs., Yaginuma (5); *H. pusilla* ♀ new to Belgium p. 10, Denis.

Halorates reprobus p. 75 figs., Brændegård.

Hapalotremus uruguayensis ♂ p. 391 figs., Buecherl.

Haplodrassus concertor ♀ p. 248 figs., Denis (3).

†Harpactes extinctus ♂ p. 349 figs., Petrunkevitch.

Harpactocrates deminutus sp. nov. ♂ Lagune del Rio Veleta, Sierra Nevada, ♀ Nordhang, Spain p. 276 fig., Denis (5).

Heliophanus pouzdranensis sp. nov. ♀. ♂ Brno, Czechoslovakia p. 152 figs., Miller, F. (2); *H. semipullatus steineri* subsp. nov. ♂ Laguna de Yeguas, Sierra Nevada, Spain p. 284 fig.; *H. janetscheki* sp. nov. ♀ Prado Llano, Sierra Nevada, Spain p. 284 fig., Denis (5).

†Hersilia miranda p. 109 figs., Petrunkevitch.

Heterodictyna linsdalei sp. nov. ♀. ♂ Monterey Co., California p. 47 figs., Chamberlin & Gertsch (5).

Heurodes porcula ♀ p. 14 fig., Archer.

Hickmania gen. nov. [Hypocephilidae] p. 16; type species *Ectatosticta troglodytes* Higgins and Petterd p. 16 figs., Gertsch (3).

Hilaira frigida p. 73 figs., Brændegård.

Hypocephalus petrunkevitchi sp. nov. ♂. ♀ Fresno Co., California p. 11 figs.; *H. thorelli* ♂. ♀ p. 7 figs., Gertsch (3).

Idiops montealegrensis ♂ p. 383 figs., Buecherl.

†Impulsor mutilus sp. nov. ♂ in Baltic amber p. 211 figs., Petrunkevitch.

†Insecutor rufus ♀ p. 134 figs., Petrunkevitch.

Ischnothelae cranwelli ♂ p. 387 figs., Buecherl.

Ischnothyreus japonicus sp. nov. ♂. ♀ Japan p. 31 figs., Oi.

Islandiana princeps p. 67 figs., Brændegård.

Juambeltzia clara ♂ p. 383 figs., Buecherl.

Kibramoa guapa sp. nov. ♂ ♀ Tecate, Baja California p. 38; *K. isolata* sp. nov. ♂. ♀ Guadalupe Id., Baja California p. 43 figs.; *K. madrona* sp. nov. ♂. ♀ Monterey Co., California p. 37 figs.; *K. paita* sp. nov. ♂ Clark Co., Nevada p. 41 figs.; *K. suprenans pima* subsp. nov. ♀ Pima Co., Arizona p. 36; *K. yuma* sp. nov. ♂. ♀ Yuma Co., Arizona p. 39 figs.; *K. hermani* ♂ p. 41 figs.; *K. suprenans* ♂. ♀ p. 33 figs.; key to ♂♂ p. 33, Gertsch (4).

†Laccolithus subgen. nov. see *Phrurolithus*, Petrunkevitch.

Lasiiodora curtior ♂ p. 400 figs.; *L. differens* ♂ p. 401 figs.; *L. difficilis* ♂ p. 401 figs.; *L. erythrocyclara* ♂ p. 402 fig.; *L. parahybana* ♂ p. 402 fig., Buecherl.

Lathys sylvania sp. nov. ♀ Sylvania, Georgia p. 29 figs.; *L. alberta* ♀ p. 24 figs.; *L. albida* ♀ ♂ p. 34 figs.; *L. delicatula* ♀ p. 31 figs.; *L. dixiana* ♀ p. 28 figs.; *L. foxi* ♀ p. 30 figs.; *L. immaculata* ♀ ♂ p. 34 figs.; *L. maculina* ♀ ♂ p. 32 figs.; *L. pallida* ♀ ♂ p. 35 figs., Chamberlin & Gertsch (5).

Latrodectus list of valid species p. 1055, Levi (1).

Lauricius hooki ♀ ♂ p. 372 figs., Edwards, R. J.

Leptoneta akiyoshiensis sp. nov. ♂ ♀ p. 33 figs., Oi; *L. patrizii* sp. nov. ♂ ♀ Grotta di San Giovanni, Sardinia p. 41 fig.; *L. insularis* sp. nov. ♀ Grotta "Su Coloru," Laerru, Sardinia p. 43 fig.; *L. serbariuana* sp. nov. ♂ Grotta de "Is Flores," Serbariu, Sardinia p. 44 fig., Roewer.

Leptorhoptrum robustum p. 69 figs., Brændegård.

Leptyphantes aelleni sp. nov. ♀ Gouffre de Kaf el Bouk, Morocco p. 50 figs., Denis & Dresco (6); *L. angulatus* ♂ new to Belgium p. 9, Denis; *L. beticus* sp. nov. ♀ Picacho de Veleta, Sierra Nevada, Spain p. 298 figs., Denis (5); *L. ollivieri* sp. nov. ♀ Bois des Crêtets, Basses-Pyrénées p. 254 figs., Denis (3); *L. trantevei* sp. nov. ♂ ♀ Grotte Tancoserci, Bovsko, Bulgaria p. 577 figs., Miller, F.; *L. leporosus* p. 83 figs.; *L. zimmermanni* p. 84 figs.; *L. mengei* p. 86 figs.; Brændegård.

Lithyphantes incompositus sp. nov. ♀ Picacho de Veleta, Sierra Nevada, Spain p. 294 figs., Denis (5).

†*Litiken setosus* ♀ p. 215 figs., Petrunkevitch.

Loxosceles bolivari sp. nov. ♂ ♀ Nuevo Leon, Mexico p. 22 figs.; *L. boneti* sp. nov. ♂ ♀ Guerrero, Mexico p. 23 figs.; *L. carabbaea* sp. nov. ♂ ♀ Corozal, Puerto Rico p. 17 figs.; *L. colima* sp. nov. ♂ ♀ Colima, Mexico p. 24 figs.; *L. cubana* sp. nov. ♂ ♀ Candelaria, Cuba p. 19 figs.; *L. misteca* sp. nov. ♂ Guerrero, Mexico p. 27 figs.; *L. nahuana* sp. nov. ♀ Hidalgo, Mexico p. 29 figs.; *L. panama* sp. nov. ♂ ♀ Barro Colorado Id., Canal Zone p. 35 figs.; *L. tehuana* sp. nov. ♂ ♀ Chiapas, Mexico p. 26 figs.; *L. zapoteka* sp. nov. ♂ ♀ Guerrero, Mexico p. 28 figs.; *L. arizonica* ♂ ♀ p. 13 figs.; *L. devia* ♂ ♀ p. 11 figs.; *L. laeta* ♀ p. 37

figs.; *L. reclusa* ♂ ♀ p. 7 figs.; *L. rufescens* ♂ ♀ p. 31 figs.; *L. rufipes* ♂ ♀ p. 33 figs.; *L. unicolor* ♂ ♀ p. 15 figs.; *L. yucatana* ♂ ♀ p. 20 figs., Gertsch (2).

Lycinus longipes ♂ p. 405 fig., Buecherl.

Lycosa saltuaria hyperborea new to Iceland p. 11 figs., *L. prativaga sphagnicola* p. 17 figs.; *L. tarsalis* p. 13 figs., Brændegård.

†*Machilla* gen. nov. [Clubionidae: Micariinae] p. 299; type species *M. setosa* sp. nov. ♀ in Baltic amber p. 300 figs., Petrunkevitch.

Magulla symmetrica ♂ p. 391 figs., Buecherl.

Mallows blandus sp. nov. ♀ White City, New Mexico p. 40 fig.; *M. pearcei* sp. nov. ♀ ♂ San Diego Co., California p. 45 figs.; *M. bryanti* ♀ ♂ p. 40 figs.; *M. dugesii* ♀ ♂ p. 38 figs.; *M. mians* ♀ ♂ p. 44 figs.; *M. niveus* ♀ ♂ p. 41 figs.; *M. pallidus* ♀ ♂ p. 42 figs.; *M. trivittatus* ♀ ♂ p. 45 figs., Chamberlin & Gertsch (5).

Maro minutus ♂ new to Belgium p. 9 fig., Denis.

Marpissa dentoides sp. nov. ♂ ♀ Sea Cliff, New York p. 27 fig.; *M. obtusa* sp. nov. ♂ Palacios, ♀ Chisos Mts., Texas p. 28 figs.; *M. sulcosa* sp. nov. ♂ Alachua Co., ♀ Duval Co., Florida p. 25 figs.; *M. wallacei* sp. nov. ♂ ♀ Alachua Co., Florida p. 13 figs.; *M. bina* ♂ ♀ p. 9 figs.; *M. formosa* ♀ ♂ p. 4 figs.; *M. grata* ♂ ♀ p. 11 figs.; *M. lineata* ♂ ♀ p. 23 figs.; *M. pikei* ♂ ♀ p. 15 figs.; *M. robusta* ♂ ♀ p. 21 figs., Barnes.

Maso sundevalli new to Iceland p. 46 fig., Brændegård; *M. sundevalli* ♀ new to Belgium p. 4, Denis.

Mecynometa montivaga sp. nov. ♂ Portland Parish, Jamaica p. 6 fig.; *M. torrei* sp. nov. ♂ Isle of Pines, Cuba p. 5 figs., Archer.

Meioneta fuscipalpis ♂ p. 296 fig., Denis (5); *M. nigripes* new to Iceland p. 80, Brændegård.

†*Memoratrix rydei* ♀ p. 226 figs., Petrunkevitch.

Menemerus bivittatus ♂ ♀ p. 44 figs.; *M. semilimbatus* p. 44 figs.; *M. vittatus* ♀ p. 47 fig., Barnes; *M. semi-*

limbatus, distribution and biology p. 345, Monterosso, B.; *M. semilimbatus*, breeding p. 542, Monterosso, B. (1).

Mengea scopigera p. 89 figs., Brændegård.

Meta reticuloides sp. nov. ♀ Osaka Pref.: ♂ Kumamoto Pref., Japan p. 26 figs.; *M. kompirensis* ♀. ♂ p. 28 figs.; *M. yunohamensis* ♀. ♂ p. 28 figs.; revision of gen. p. 24, Yaginuma.

Metacyrba arizonensis sp. nov. ♂. ♀ Tucson, Arizona p. 42 figs.; *M. californica* ♂. ♀ p. 39 figs.; *M. floridana* ♂. ♀ p. 33 figs.; *M. punctata* ♀. ♂ p. 35 fig.; *M. taeniola* ♂. ♀ p. 30 figs.; *M. undata* ♂. ♀ p. 36 figs., Barnes.

Metargyra fuscolimbata sp. nov. ♀ Portland Parish, Jamaica p. 5 fig., Archer.

Metepeira acostai sp. nov. ♀ Camaguey Province, Cuba p. 15 fig.; *M. jamaicensis* sp. nov. ♀ St. Catherine Parish, Jamaica p. 16 fig., Archer.

Micaria silesiaca ♂ p. 145 figs., Locket et al.

Microerigone spitzbergensis new to Iceland p. 59 fig., Brændegård.

†*Mictodipoena* gen. nov. [Theridiidae; Mictodipoenae] p. 161; *M. stridula* sp. nov. in Baltic amber p. 162 figs., Petrunkevitch.

Misumenops tuckeri thomensis subsp. nov. ♂ Morro da Trindade, San Thomé p. 40 figs., Bacelar.

†*Myro extinctus* sp. nov. ♂ in Baltic amber p. 130 figs., Petrunkevitch.

†*Mysmena succini* ♀ p. 158 figs., Petrunkevitch.

†*Mystagogus dubius* sp. nov. in Baltic amber p. 218 figs., Petrunkevitch.

†*Nanomysmena* gen. nov. [Theridiidae; Dipoeninae] p. 193; type species *N. gracilis* sp. nov. ♂ in Baltic amber p. 193 figs.; *N. aculeata* sp. nov. ♀. ♂ in Baltic amber p. 195 figs.; *N. munita* sp. nov. ♀ in Baltic amber p. 199 figs.; key to species p. 193, Petrunkevitch.

Neoantistea quelpartensis sp. nov. ♂. ♀ Quelpart Id., Korea p. 3 figs., Paik (1).

Nephila (*Nothonephila* subgen. nov.) type species *N. cornuta* (Pallas 1772) ♂. ♀ p. 3 figs.; *N. (T.) clavipes fasciulata* ♂. ♀ p. 3 figs., Archer.

Nicholasia tigrina ♀ p. 4 fig., Archer.

Nothonephila subgen. nov. see *Nephila* p. 3, Archer.

Notioscopus sarcinatus ♀. ♂ new to Belgium p. 5, Denis.

Oedothonax tokyoensis ♂ p. 71 figs., Yaginuma (5); *O. tuberosus* ♂ new to Belgium p. 5, Denis.

Ogulnius cubanus sp. nov. ♂ Oriente Province, Cuba p. 8 fig., Archer.

Orchestina okitsui sp. nov. ♂. ♀ Japan p. 32 figs., Oi.

†*Orchestina baltica* ♂ p. 354 figs., Petrunkevitch.

Ordgarius hobsoni p. 266 fig.; *O. sexspinosis* p. 266 fig., Yaginuma (3).

†*Oxyopes succini* sp. nov. ♂ in Baltic amber p. 141 figs., Petrunkevitch.

Pagomys bishopi sp. nov. ♀ Half Dome, California p. 15; *P. lactea* sp. nov. ♀ Palo Duro Canyon, Texas p. 16; *P. monticola* ♀ p. 15 figs., Chamberlin & Gertsch (5).

Pambobeteus cesteri ♂ p. 402 fig.; *P. isabellinus* ♂ p. 403 fig.; *P. platyomma* ♂ p. 403 fig.; *P. roseus* ♂ p. 403 fig.; *P. sorocabae* ♂ p. 403 figs.; *P. tetraanthus* ♂ p. 403 figs., Buecherl.

Paraleptoneta fagei sp. nov. ♂. ♀ Grotta Verde, Capo Caccia, Sardinia p. 47 fig., Roewer; *P. parenzani* sp. nov. ♂. ♀ Grotta Porta di Monte Piano, Salerne, Italy p. 45 figs., Dresco (4).

Paramaevia gen. nov. [Salticidae; Marpissinae] p. 49; type species *Maevia poultoni* Peckham and Peckham p. 49, Barnes.

Pardosa kervillei ♀ p. 230 fig.; *P. kervillei montivaga* ♀ p. 231 fig., Muller.

†*Paruroctea blauvelti* ♂ p. 111 figs., Petrunkevitch.

Pelecopsis muticus sp. nov. ♀ Col de Ger, Basses-Pyrénées p. 252 figs., Denis (3).

Peponocranium ludicum ♀ new to Belgium p. 4, Denis.

Phanlothrix hardyi p. 71 figs., Brændegård.

Philodromus flavidus ♀ p. 73 fig., Yaginuma (5).

Phlegra variegata sp. nov. ♀ Peñones de San Francisco, Sierra Nevada, Spain p. 287 figs., Denis (5).

Pholcus opilionoides p. 71 fig.,
Yaginuma (5).

Phoneyusa manicata ♂ described p. 39,
Bacelar.

Phormictopus cancerides ♂ p. 398
figs., Buecherl.

†*Phrurolithus* (*Phrurolithus*) *ipseni*
sp. nov. in Baltic amber p. 307 figs.;
P. (*Laccolithus* subgen. nov.) *extinctus*
sp. nov. ♀ in Baltic amber p. 311 figs.;
P. (*Eophrurolithus* subgen. nov.) *fossilis*
sp. nov. ♀ in Baltic amber p. 314 figs.,
Petrunkewitch; *P. nipponicus* ♂ . ♀
p. 74 figs., Yaginuma (5).

Pirata piraticus p. 22 figs., Brænde-
gård; *P. uliginosus* ♂ p. 232 fig., Muller.

Piratula hygrophila ♂ . ♀ p. 233 figs.,
Muller.

Plectreurys angela sp. nov. ♂ Desert
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ardea sp. nov. ♀ ♂ Sinaloa, Mexico
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oasa sp. nov. ♂ Mountain Springs;
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zacateca sp. nov. ♂ . ♀ Zacatecas,
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tanum* p. 78 fig., Brændegård.

†*Priscometa* gen. nov. [Araneidae:
Metinae] p. 241; type species *P.*
tenuipes sp. nov. ♂ in Baltic amber p.
241 figs., Petrunkewitch.

†*Prolinus* gen. nov. [Salticidae:
Boethinae] p. 339; type species *P. fossilis*
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Petrunkewitch.

Prosopotheca incisa new to Iceland
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Psalistrups auripilus ♂ p. 388 fig.
Buecherl.

Pselligmus argentinensis sp. nov. ♂ . ♀
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pelli & Pikelin (1).

Pseudohomoeomma fasciatum ♂ p.
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Pseudomogrus pennatus sp. nov. ♀
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Pycnothele perdita ♂ p. 405 fig.
Buecherl.

Pycnothelopsis modesta ♂ p. 405 fig.,
Buecherl.

Rachias dispar ♂ p. 383 figs., Buecherl.

Rhaebothorax morulus p. 67 fig.,
Brændegård.

Robertus arundineti p. 30 fig., Bræn-
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Saloca diceros new to France p. 3,
Denis (1).

Salticus scenicus new to Iceland p. 11,
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Savignya frontata p. 51 figs., Bræn-
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Scopocira pikeliniae sp. nov. ♂ Bahia:
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figs., Dabelow.

†*Segestria succinei* p. 341 figs.; *S.*
tomentosa ♀ p. 343 figs., Petrunkewitch.

Segrea gen. nov. [Leptonetidae] p.
45; type species *S. sardinensis* sp. nov.
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Senoculus scalarum sp. nov. ♂ Mis-
siones, Argentina p. 194 figs.; *S. darwini*
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202, Schiapelli & Pikelin (2).

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Tetragnatha extensa and *T. pinicola* separation of ♀♀ p. 140 figs., Locket et al.

Teutana sp. p. 293 fig., Denis (5).

Thallumetus pineus ♀. ♂ p. 36 figs., Chamberlin & Gertsch (5).

Thanatus fuscipes concolor subsp. nov. ♀ Sierra Nevada, Spain p. 283, Denis (5); *T. arcticus* ♂ p. 530 figs., Holm; *T. ugorum* ♂ p. 251 figs., Denis (3).

†*Thereola petiolata* ♀ p. 352 figs., Petrunkevitch.

†*Theridiometa samlandica* ♀ p. 254 figs., Petrunkevitch.

Theridion ferrum-equinum ♀ p. 70 figs., Yaginuma (5); *T. lundbecki* ♂. ♀ p. 526 figs.; *T. ohlerti* ♂. ♀ p. 526 figs., Holm; *T. varians* new to Iceland p. 29 fig.; *T. bellicosum* p. 29 fig., Bræn-degård.

†*Theridion simplex* ♀ p. 151 figs., Petrunkevitch.

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Tiso aestivus p. 48 figs., Bræn-degård.

Tmesiphantes elegans sp. nov. ♂ Misiones, Argentina p. 4 figs.; *T.*

serratus sp. nov. ♂ Buenos Aires, Argentina p. 3 figs.; *T. key to species* p. 7,

Pikelin & Schiapelli; *T. minensis* ♂ p. 392 figs., Buecherl.

Trachynella nudipalpis p. 41 figs., Bræn-degård.

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Trichoncus pusillus sp. nov. ♀. ♂ Brno, Czechoslovakia p. 150 figs., Miller, F. (2).

Trichopterna cito ♂. ♀ new to Britain p. 137 figs., Locket et al.

Typhochrestus borealis new to Iceland p. 55, Bræn-degård.

Ummidia zilchi ♂ p. 382 figs., Buecherl.

†*Viocurus* gen. nov. [Linyphiidae] p. 219; type species *V. fossilis* sp. nov. ♂ p. 219 figs., Petrunkevitch.

Wixia pujalsi sp. nov. ♀ Oriente, Cuba p. 14 figs., Archer.

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†*Zachria restincta* sp. nov. ♀ in Baltic amber, p. 276 figs.; key to fossil species p. 275, Petrunkevitch.

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Guide to families, illustrated, Baker et al. (2).

Key to adult females Phytoseiinae and Aceosejinae on strawberries in Central California, Kennett.

Survey to plant mites of Puerto Rico, Cromroy.

Faunal list.—Hydrach. of Luxemburg, Besseling; Oribatei of Finland, Karpinen (1); Finland, Karppinen (3); Oribatei of Lithuania, Eitminavičiūtė; Central Spain, Mihelčič (13); Lake Maggiore, Italy, Viets, K. O. (1); Austria, Viets, K. O.; Hydrach. of Silesia, Laska; Hydrach. of Carpathian rivers, Dudich; Oribatei of Riazan Province, USSR, Sitnikova; Ixod. of Cape Verde Is., Meira et al.; Ixod. in Bechuanaland, Zumpt; Phytophagous species of Mauritius, Moutia; Ixod. of Guiana and French Antilles, with keys to species, Floch & Fauran (1); Ixod. of Argentina, Boero.

ACEOSEJINAE revision of British species p. 177 figs.; key to genera and subgenera p. 183; Synonymic list of species p. 222, Evans (2).

ANALGESIDAE key to genera p. 28, Gaud (1).

ANALGEOIDEA key to families p. 106, Gaud.

ANOETIDAE review of family p. 5; key to genera p. 10; list of species p. 194, Hughes & Jackson.

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DASYPONYSSIDAE key to genera p. 142 figs., Strandtmann & Wharton (1).

DERMANYSSIDAE key to genera p. 77 figs., Strandtmann & Wharton (1).

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DIPLOGYNIIDAE key to subfamilies and genera p. 29, Womersley (2).

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HYDRACHNELLAE key to British genera p. 285, Darby (1).

IXODINAE morphology and systematics of immature stages, Filippova.

IXODOIDEA Monograph of fauna of Italy, Starkoff; I. List of species of Cameroons with distribution and host lists p. 69, Morel & Mouchet (1); I. keys to genera and species (adults) of Belgian Congo p. 421, Pierquin & Niemegeers (1); I. key to Mexican genera p. 67 figs., Vargas.

IXODORHYNCHIDAE key to genera p. 138 figs., Strandtmann & Wharton (1).

LAELAPTIDAE key to genera of Laelaptinae p. 29 figs., Strandtmann & Wharton (1); L. classification and synonymy p. 261, Zumpt & Till (1).

LAELAPTOIDEA superfam. nov. p. 136, Lange (1).

MESOSTIGMATA, classification, anatomy, keys to families and genera p. 1 figs., Strandtmann & Wharton (1); M. palpal tined seta p. 903 figs., Camin et al. (1).

MICROTHROMBIDIINAE key to genera p. 30, André.

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NANHERMANNIDAE revised p. 913; key to genera and species p. 921, Woolley & Higgins (6).

NANHERMANNOIDEA superfam. nov. Oribatei p. 87, Woolley & Baker (5).

ORIBATEI distribution in Europe p. 853, Mihelčič (9); O. classification of families, p. 867, Woolley; O. key to superfamilies and families p. 86, Woolley & Baker (5).

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ORIBATULOIDEA superfam. nov. Oribatei p. 89, Woolley & Baker (5).

PARAMEGISTIDAE key to genera p. 192 figs., Strandtmann & Wharton (1).

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tatreensis ♀ p. 334 fig.; *A. (O.) octoporus* ♀ p. 336 fig., Laska; *A. vietsi* Lundblad 1927 = *Torrenticola microstomus* p. 103, Viets, K.

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Euthyas truncata ♂ . ♀ new to Silesia p. 173 fig., Láska (1).

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Hermannella congoensis sp. nov. Belgian Congo p. 23, Balogh (1).

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Heterolaelaps Hirst 1926 = *Mesolaelaps* Hirst 1926 p. 358, Domrow.

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Mycobates austroamericanus sp. nov. Chulumani, Bolivia p. 91 fig., Hammer.

Myianoetus undulatus sp. nov. ♀. ♂ deutonym. Ellerson, Virginia p. 158 figs.; *M. diadematus* ♀. ♂ deutonym. p. 163 figs.; *M. filicum* deutonym. p. 165 figs.; *M. muscarum* ♀. ♂ deutonym. p. 167 figs.; *M. setipes* deutonym. comb. nov. p. 170 figs., Hughes & Jackson.

Myonyssoides natalensis sp. nov. off mole-rat, *Amblysomus hottentotus*, Queensborough, Natal p. 518 figs., Lavoipierre (1).

?*Myotrombicula bidentipalpis* sp. nov. larva off *Hipposideros caffer centralis*, Irangi, Belgian Congo p. 33 fig., Vercammen-Grandjean & Fain.

Myrmonyssus phalaenodectes off *Leucania phragmatidicola*, Massachusetts, also on *Pseudaletia unipuncta* (moths) p. 41 figs., Treat (1); *M. phalaenodectes*, life history and ecology p. 366 figs., Treat (2).

Mucronothrus rostratus p. 25 fig., Hammer.

Nanhermannia elegantissima sp. nov. Argentina and Bolivia p. 14 fig., Hammer; *N. forsslundi* sp. nov. St. Tyrvää, Finland p. 192 figs., Karppinen (2); *N. quadridentata* sp. nov. Angola p. 2, Balogh (1); *N. sellnicki* sp. nov. ♀ Lule Lappmark, Sweden p. 75 figs.; *N. nana* p. 75 fig., Forsslund; *N. areolata* p. 918 fig.; *N. comitalis* p. 917 fig.; *N. elegantula* p. 917 fig.; *N. komareki* p. 919 fig.; *N. nana* p. 915 fig.; *N. pectinata* p. 918 fig., Woolley & Higgins (6).

Nanorcheses pseudocollinus sp. nov. Côte des Albères: Province, France p. 101 figs., *N. amphibius* p. 106 figs., Schuster (1).

Nasichia subgen. nov. see Schoutedenichia, Vercammen-Grandjean.

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Neolabidocarpus buloloensis redescription of holotype nymph p. 45 fig., Domrow (1).

Neomegistus australicus sp. nov. ♀ off lizard, *Tiliqua* sp., Nuyts Archipelago, South Australia p. 119 figs., Womersley (3).

Neomyobia tulsi sp. nov. ♀. ♂ off bat, *Rhinolophus rouxi*, Tulsi Lake Tunnel, Bombay p. 120 figs., Hiregauder & Bal.

Neophyllobius consobrinus sp. nov. ♀ Chiapas, Mexico, off *Jaqinia pungens* p. 177 fig.; *N. curtipilus* sp. nov. ♀. ♂ off *Cordia dentata*, Chiapas, Mexico p. 180 fig.; *N. equalis* sp. nov. ♀ off *Guazuma* sp., Navarrete, Mexico p. 177 fig.; *N. farrieri* sp. nov. ♀. ♂ off Spanish moss, Oaxaca, Mexico p. 176 fig.; *N. horridus* sp. nov. ♀ Guadalajara, Mexico p. 178 figs.; *N. inequalis* sp. nov. ♀ off *Erythrina* sp., Veracruz, Mexico p. 176 figs.; *N. lobatus* sp. nov. ♀ San Blas, Mexico p. 177 fig.; *N. longulus* sp. nov. ♀ off *Calophyllum*, Oaxaca, Mexico p. 180 fig.; *N. marginatus* sp. nov. ♀. ♂ Ixtlan del Rio, Mexico p. 178 figs.; *N. quadrisetosus* sp. nov. ♀ Guaymas, Mexico p. 175 fig.; *N. spatulus* sp. nov. ♀ Tepic, Mexico p. 181 fig.; *N. trisetosus* sp. nov. ♀. ♂ N.L. off *Quercus*, Oaxaca, Mexico p. 175 fig.; key to ♀. ♀ p. 174, DeLeon (1).

Neoschöngastia hullinghorsti sp. nov. larva off long-billed ringed plover, *Charadrius placidus*, Nagatoro, Saitama Pref., Japan p. 69 figs., Asanuma (2);

N. americana var. *hexasternosetosa* var. nov. larva off *Cuculus p. poliocephalus* (Aves), Canton & Punyu, China p. 379 figs.; *N. monticola* larva p. 377 figs.; *N. americana solomonis* larva p. 381 figs., Chen & Hsu.

Neoseiulus suecicus sp. nov. ♀ Lörstrand, Sweden p. 28 figs.; *N. soleiger* ♀ new to Sweden p. 28, Sellnick (4).

Neospeleognathopsis subgen. nov. see *Speleognathopsis* p. 177, Fain (4).

Neospeleognathus subgen. nov. see *Speleognathus*, Fain (4).

Neoteneriffiola uta sp. nov. ♀ Moab, Utah p. 44 figs., Tibbets.

Neotetranychus flabellosetus sp. nov. ♂. ♀ off *Cassia bacillaris*, Oaxaca, Mexico p. 1239 figs.; *N. hamus* sp. nov. ♂. ♀ Nayarit, Mexico p. 1238 figs.; *N. hispidosetus* sp. nov. ♂. ♀ *Erythrina* sp., Puebla, Mexico p. 1237 figs.; *N. undulatus* sp. nov. ♂. ♀ off *Beaucarnea stricta*, Tamaulipas, Mexico p. 1239 figs., Beer & Lang (2).

Neotrombicula nicolei sp. nov. larva off *Dasyurus incomitus*, off *Lophuromys sikapusi*, off *Oenomys hypoxanthus*, Brazzaville, Belgian Congo p. 418 figs., Taufflieb.

Neotrombidium armatum sp. nov. Tchihumbué, Angola p. 115 figs.; *N. elongatum* sp. nov. Dundo, Angola p. 112 figs., André.

Neumania spinipes new to Silesia p. 178, Láska (1).

Nodocepehus gen. nov. [Carabodidae] p. 64; type species *N. dentatus* sp. nov. Rio Atuel Valley, Argentina p. 65 fig., Hammer.

Nothrus angolensis sp. nov. Angola p. 7; *N. basilewskyi* sp. nov. Kilimanjaro. p. 6; *N. leleupi* sp. nov. Kilimanjaro p. 6, Balogh (1); *N. suramericanus* sp. nov., Argentina and Bolivia p. 32 fig., Hammer.

Nycteridocoptes lavoipierrei sp. nov. ♂ with *Rousettus leachi*, Mahyusa, Belgian Congo p. 244 figs.; *N. macrophallus* sp. nov. ♂ with *Rousettus leachi*, Mahyusa, Belgian Congo p. 245 fig.; *N. rousettii* sp. nov. ♂ with *Rousettus leachi*, Mahyusa, Belgian Congo p. 245 figs.; *N. poppei* p. 232 figs.; *N. pteropodi* p. 232 fig.; key to ♂♂ p. 247, Fain (5).

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Oligomychus flexuosus sp. nov. ♂. ♀ off *Paspalum humboldtianum* (wild-grass), Chiapas, Mexico p. 1243 figs., Beer & Lang (2); *O. smithii* sp. nov. ♀. ♂ off *Tetrazygia elaeagonoides*, Guayama, Puerto Rico p. 61 figs.; key to Puerto Rican species p. 55, Cromroy.

Ololaelaps placentula ♀ new to Sweden p. 24, Sellnick (4).

Olopachys golubevi sp. nov. ♀ off field mouse & common vole, Zelentchuk Region, Caucasus p. 180 figs., Reitblatt.

Ophiomegistus clelandi sp. nov. ♂ off snake, Hermannsburg, Central Australia p. 115 figs., Womersley (3).

Ophioptes dromicus sp. nov. ♀. ♂ off grass snake, *Dromicus andreatae* orientalis, Oriente Prov., Cuba p. 107 figs.; key to ♀♀ p. 112, Allred (1); *O. tropicalis* redescribed p. 287, Allred (3).

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furcata sp. nov. Tal des Rila Flusses, Bulgaria p. 17 figs.; *O. ornata longipilosa* subsp. nov. Chiza Stalin, Bulgaria p. 19 figs., Kunst (2); *O. nitens brachytrichinus* subsp. nov. Possession Id., Crozet Group p. 396; *O. crozettensis anareensis* subsp. nov. Macquarie Id., Antarctic p. 397 figs., Dalenius & Wilson; *O. obsoleta* new to Finland p. 131, Karppinen (4).

Oribata oriformis sp. nov. Kona, Hawaii p. 703, Pearce.

Oribatella punctata sp. nov. Rio Atuel Valley, Argentina p. 99 fig.; *O. unispinata* sp. nov. Unduavi, Bolivia p. 100 fig., Hammer; *O. punctulata* sp. nov. Angola p. 27; *O. (?) brevilamellata* sp. nov. Angola p. 27, Balogh (1); *O. dentaticuspis* redescribed p. 136 figs.; *O. magniseta* redescribed p. 138 figs., Woolley (2).

Oribatula altimontana sp. nov. Argentina and Bolivia p. 70 fig.; *O. altimontanoides* sp. nov. Rio Atuel Valley, Argentina p. 71 fig.; *O. magniporosa* sp. nov. Rio Atuel Valley, Argentina p. 69 fig.; *O. (?) suramericana* sp. nov. Argentina and Bolivia p. 69 fig., Hammer; *O. (Z.) exarata* p. 228 fig., Schuster; *O. pannonica* p. 154 fig., Kunst (1).

Oribella arcuata sp. nov. Rio Atuel Valley, Argentina p. 59 fig.; *O. spinifer* var. *fissurata* var. nov. Cumbre, Bolivia p. 58 fig., Hammer; *O. clavigera* sp. nov. Göttschach, Austria p. 59 fig., Mihelčič (10); *O. castanea* new to Finland p. 131, Karppinen (4).

Oribotritia kishidai sp. nov. Tochigi Pref., Japan p. 18 figs., Aoki, J.

Ornithodoros capensis ♀. ♂. N.L. new to New Zealand p. 570 figs.; *O. santi-pauli* ♀ p. 576 fig.; *O. talaje* ♀ p. 576 fig., Dumbleton; *O. capensis* p. 240 figs.; distribution p. 243, Rageau & Vervent; *O. lahorensis* p. 237 figs., Pavlov & Boitschev; *O. megnini*, new host, pronghorn antelope, *Antilocapra americana* p. 514, Schad; *O. moubata*, embryology p. 15 figs., Aeschlimann; *O. moubata*, genital system ♂. ♀ p. 118 fig., Wagner-Jevseenko; *O. rostratus* p. 57 figs.; *O. talaje* p. 59 figs., Boero.

Ornithonyssus bursa new to Puerto Rico p. 838, Fox.

Otobius megnini, distribution p. 605, Theiler & Salisbury (1); *O. megnini* p. 60 figs., Boero.

Otodectes cynotis, morphology and life history p. 849 figs., Sweatman (2).

Oxus ovalis new to Silesia p. 176 fig., Láska (1).

Oxyzetes gen. nov. [Microzetidae] p. 28; type species *O. pectiniger* sp. nov. Belgian Congo p. 28, Balogh (1).

Pachygnathus marinus sp. nov. Côte des Albères: Province, France p. 96 figs., Schuster (1).

Pachylaelaps ambulacralis sp. nov. ♀. deutonym, off *Heliocoris hamadryas*, Potchefstroom, Transvaal also off *Onthophagus gazella* and off *Heliocoris gigas* p. 154 figs.; *P. heliocopridis* sp. nov. ♀ off *Heliocoris gigas*, Potchefstroom, Transvaal p. 152 figs.; Ryke & Meyer (2).

Panisooides setipes p. 55 figs., Viets, K.O. (3).

Panisus torrenticulus ♀ p. 329 fig., Láska.

Paradiplogynium gen. nov. [Diplogyniidae] p. 26; type species *P. panesthia* sp. nov. ♀. ♂ off cockroach, *Panesthia laevicollis*, Jenolan Caves, New South Wales p. 27 figs., Womersley (2).

Paralitarachna subgen. nov. see *Litarachna*, Cook.

Parapelops bifurcatus p. 275 figs., Woolley (3).

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Paraspeleognathopsis subgen. nov. see *Speleognathopsis* p. 177, Fain (4).

Parathrombella gen. nov. [Trombidiidae: Thrombellinae] p. 19; type species *P. nasuta* sp. nov. ♀ Dundo, Angola p. 19 figs.; *P. gracilipalpe* sp. nov. ♀ Dundo, Angola p. 19 figs.; *P. gracilipalpe* sp. nov. Dundo, Angola p. 25 figs.; *P. vilhenae* sp. nov. Dundo, Angola p. 22 figs., André.

Paratrombium bidactylus sp. nov. ♀ larva Mason Co., Washington p. 357 figs.; *P. quadrisetata* sp. nov. ♀ larva, Riverside, California p. 365 figs.; characters and character variants discussed p. 350 figs., Newell.

Parazercon sarekensis ♀ p. 360 fig., Sellnick.

Parhypochthonius africanus sp. nov. Angola p. 2, Balogh (1).

Passalacarus brooksi sp. nov. ♀. ♂ off Passalid beetle, Julatten, Queensland p. 22 figs., Womersley (2).

Passalozetes intermedius p. 149 fig., Kunst (1).

Pedothrombidium africanum sp. nov. Tala Mungongo, Angola p. 79 figs.; *P. pectinatum* sp. nov. between Tshikapa and Luluabourg, Belgian Congo p. 80 figs., André.

Pedrocortesia gen. nov. [Eremaeidae] p. 40; type species *P. mirabilis* sp. nov. Rio Atuel Valley, Argentina p. 41 fig., Hammer.

Pelops grandis sp. nov. Göltschach, Austria p. 68 fig., Mihelčič (10); *P. heegi* sp. nov. Belgian Congo p. 31; *P. kivuensis* sp. nov. Belgian Congo p. 30, Balogh (1); *P. latipilosus* p. 270 figs., Woolley (3); *P. sp.* p. 104 fig., Hammer.

Peloptulus americanus p. 271 figs.; *P. laticuspidatus* p. 274 figs., Woolley (3).

Peloribates arcolatus sp. nov. Angola p. 29; *P. dispar* sp. nov. Angola p. 30; *P. minutus* sp. nov. Belgian Congo p. 29; *P. punctulatus* sp. nov. Angola p. 30, Balogh (1); *P. serratoseta* p. 334 figs.; *P. banksi* p. 336 figs.; *P. clavata* p. 336 figs., Woolley (4).

Pentachia subgen. nov. see Schoutedenichia, Vercammen-Grandjean.

Pentamerismus oregonensis ♀. ♂ p. 187 figs.; key to females p. 187; *P. morishitai* = *P. taxi* syn. nov. p. 187; *P. juniperi* comb. nov. p. 189, Pritchard & Baker.

Peramelaelsaps bandicoota ♂ described p. 358 fig., Domrow.

Pergamasus vulgaris sp. nov. USSR p. 88, Evseeva.

Periglischrus moucheti sp. nov. ♀. ♂ off *Hippodieros caffer guineensis*, Yaoundé, Cameroons p. 252 figs.; *P. nycteris* sp. nov. ♀ off *Nycteris arge*, Banco Forest, Ivory Coast p. 255 figs.; *P. zuluensis* sp. nov. ♀. ♂ off *Nycteris thebaica capensis*, Ubombo district, Zululand p. 250 figs.; *P. africanus* ♀ p. 256 fig.; key to Ethiopian species ♀ ♀ p. 249, Till; *P. rhinolophi* sp. nov. ♀. ♂ off bat, *Rhinolophus rouxi*, Tulsi Lake Tunnel, Bombay p. 104 figs., Hiregauder & Bal.

Periphis haemisphaericus ♂ new to Sweden p. 18 fig., Sellnick (4).

Perlohmannia dissimile, adult, nymph and larva p. 57 figs., Grandjean (6).

Pertorgunia gen. nov. [Oribatei] *macquariensis* sp. nov. ♀. ♂ Macquarie Id., Antarctic p. 398 figs.; *P. colobanthi* sp. nov. Macquarie Id., Antarctic p. 400 figs.; key to species p. 404, Dalenius & Wilson.

Phauloppias asperula new to Sweden p. 50, Sellnick (4).

Phenopelops nom. nov. pro *Pelops* Koch, 1836 praeocc. Gistl, 1834 [Coleopt.] p. 99, Petrunkevitch in Stormer, Petrunkevitch & Hedgpeth—Treatise on Invert. Paleont. 1955 [Omitted from Z.R. 1956].

Phthiracarus benoiti sp. nov. Angola p. 33; *P. machadoi* sp. nov. Angola p. 32; *P. pygmaeus* sp. nov. Angola p. 32, Balogh (1); *P. dubinini* sp. nov. Constanta, Rumania p. 401 figs.; *P. jacoti* sp. nov. Stalin, Rumania p. 397 figs.; *P. pallidus* sp. nov. Iași, Rumania p. 405 figs., Feider & Suci (4); *P. japonicus* sp. nov. Utsukushigahara, Nagano Pref., Japan p. 171 fig., Aoki, J. I. (1).

Phyllhermannia africana sp. nov. Tanganyika p. 7, Balogh (1).

Phyllotetranychus romaine sp. nov. ♀. ♂ N. off *Latania loddigesii*, Mauritius p. 255 figs.; key to species p. 255, Pritchard & Baker.

Phytoptipalpoides = *Larvacarus* p. 261, Pritchard & Baker.

Phytoptipalpus albizziae sp. nov. ♀. ♂ L. off *Albizzia procera*, Assam, India p. 189 figs.; key to females p. 189, Pritchard & Baker.

Phytoseiulus longipes sp. nov. ♀ on "foxglove," Salisbury, S. Rhodesia p. 306 figs.; *P. riegelei* sp. nov. ♀. ♂ off *Eichhornia crassipes*, Chile p. 48 figs., Dosse (1); *P. setosa* comb. nov. ♀ p. 71 fig.; key to species p. 70, Garman.

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Pilizetes basilewskyi sp. nov. Tanganyika p. 31; *P. sellnicki* sp. nov. Angola p. 31, Balogh (1).

Pilogalumna (?) *lunai* sp. nov. Angola p. 32, Balogh (1).

Placothyopsis gen. nov. [Thyasinae] p. 167; type species *P. fibulata* sp. nov. ♂. N. Lac Greaca, Danube, Romania p. 168 figs., Motas et al.

Plasmobates africanus sp. nov. Belgian Congo p. 23; *P. machadoi* sp. nov. Belgian Congo p. 23; *P. minor* sp. nov. Belgian Congo p. 23, Balogh (1).

Platynothrus altimontanus sp. nov. Cumbre, Bolivia p. 35 fig.; *P. quadrastriatus* sp. nov. Arroyo de la Cruz de Piedra, Argentina p. 35 fig.; *P. skottbergii* p. 33 fig., Hammer; *P. leleupi* sp. nov. Belgian Congo p. 7, Balogh (1); *P. setifer* chaetotaxy of tarsi p. 277 figs., Grandjean; *P. punctatus* new to Great Britain p. 3, Seyd.

Plesiodesmaeus gen. nov. [Gymnolamidae] p. 206; type species *Damaeus raterifer* Haller 1884 p. 206, Grandjean 954 Bull. Mus. Hist. nat. Paris (2) 6: [Omitted from Z.R. 1954].

Pneumonyssus longus ♀ p. 17 fig., Fair et al (9).

Podocinella gen. nov. [Podocinidae] p. 917; type species *P. plumosa* sp. nov. ♀ Kubaljani, Sumatra p. 927 figs.; *P. alstoni* sp. nov. ♀ Tomohon, Celebes p. 928 figs.; *P. misella* (Berlese) comb. nov. p. 929 figs.; key to species p. 927, Evans & Hyatt (4).

Podocinum aciculatum sp. nov. ♀. ♂ Kalapani, Nepal p. 918 figs.; *P. amaiense* sp. nov. ♀ Hanover, Jamaica p. 920 figs.; *P. nepalense* sp. nov. ♀ Illeri, Nepal p. 922 figs.; *P. orientale* sp. nov. ♀ Sungei Buloh, Selangor p. 922 figs.; *P. ruwenzoriense* sp. nov. ♀ Bundibugyo, Ruwenzori p. 924 figs.; *P. sumatrense* sp. nov. ♀ Kubaljani, Sumatra p. 925 figs.; key to ♀♀ p. 917; *P. sagax* p. 918 figs., Evans & Hyatt (4).

Podothrombium dearmatum sp. nov. St. Johann im Walde, Austria p. 253 fig., Mihelčič (18).

Pontarachna hinumaensis sp. nov. ♂. N. Marsh Hinuma, Japan p. 55 figs., Imamura (1).

Posthermannia extrema sp. nov. Angola p. 3; *P. grandjeani* sp. nov. Belgian Congo p. 2, Balogh (1); *P. hirsuta* p. 920 fig.; *P. nematomorpha* p. 921 fig., Woolley & Higgins (6).

Proctolaelaps (*P.*) *robustus* sp. nov. ♀ Trossachs, Perthshire p. 203 figs.;

P. (P.) scolyti sp. nov. ♀ Oxford, England p. 201 figs.; *P. (P.) cossi* ♀ p. 198 figs.; *P. (P.) hypudaei* ♀ p. 199 figs.; *P. (P.) pomorum* ♀ p. 200 fig.; *P. (Neojordensia) lawrencei* sp. nov. ♀ Forest of Dean, Gloucestershire p. 205 figs.; *P. (N.) levis* ♀ p. 204 figs.; key to species p. 197 and 204, Evans (2).

Proctophyllodes acanthicaulus sp. nov. ♂. ♀ Morocco p. 116 figs.; *P. doleophyes* sp. nov. ♂. ♀ off *Muscicapa striata* and off *M. hypoleuca*, Rabat, Morocco, also off *Phylloscopus trochilus*, off *P. sibilatrix erlangeri*, off *Hippolais polyglotta* and off *Agrobates galactotes* p. 118 figs.; *P. leptocalculus* sp. nov. ♂. ♀ off *Lanius senator*, Rabat and Meknès, Morocco p. 120 figs.; *P. microcaulus* sp. nov. ♂. ♀ off *Galerida cristata riggenbachii* and off *G. tecklae erlangeri*, Si Allal Tazi, Morocco, also off *Alauda arvensis* and off *Melanocorypha calandra* p. 120 figs.; *P. miliariae* sp. nov. ♂. ♀ off *Emberiza calandra*, Rabat and Meknès, Morocco p. 121 figs.; *P. poublani* sp. nov. ♂. ♀ Morocco p. 123 fig.; *P. reguli* sp. nov. ♂. ♀ off *Regulus ignicapillus*, Rabat, Morocco p. 124 fig.; *P. sylviae* sp. nov. ♂. ♀ off *Sylvia atricapilla*, Rabat, Morocco, also off *Sylvia melanocephala* p. 124 fig.; *P. cotyledon* ♂ p. 117 fig.; *P. pinnatus* ♂ p. 122 fig., Gaud.

Prodinychus ortleppi sp. nov. ♂. N. Potchefstroom, Transvaal p. 228 figs., Ryke (1).

Promegistus gen. nov. [Paramegisticidae] p. 117; type species *P. armstrongi* sp. nov. ♀. ♂ off beetles, Nyngan, New South Wales [Figure legend *P. australicus*] p. 117 figs., Womersley (3).

†*Protoarrenurus* gen. nov. [near Arrenuridae and Mideopsae] p. 248; type species *P. convergens* sp. nov. larva, Cenozoic, Mojave Desert, California p. 248 figs., Cook in Palmer et al.

Protoribates elegans sp. nov. Rio Atuel Valley, Argentina p. 81 fig.; *P. longicoma* sp. nov. Salta, Argentina p. 80 fig.; *P. nudus* sp. nov. Salta, Argentina p. 79 fig.; *P. rigidicoma* sp. nov. Puenta Villa, Bolivia p. 79 fig., Hammer; *P. pilosellus* sp. nov. Angola p. 30, Balogh (1); *P. variabilis* sp. nov. Poznań, Poland p. 429 figs., Rajski; *P. capucinus* var. *tentaculus* var. nov. Göltzschach, Austria p. 67 fig., Mihelčič (10).

Protzia subalpina sp. nov. ♂ Feldberg, Switzerland p. 193 fig., Schwoerbel.

Prowichmannia spiniferum ♀. deutonym. p. 172 figs., Hughes & Jackson.

Prozercon californicus sp. nov. ♀. ♂ Santa Cruz Co., California p. 126 figs.; *P. praecipius* sp. nov. ♀. ♂ Santa Cruz Co., California p. 128 figs., Sellnick (3); *P. californicus* ♀ p. 363 fig.; *P. fimbriatus* ♀ p. 366 fig.; *P. kochi* ♀ p. 366 fig.; *P. kochi* var. *pluripennatus* p. 366 fig.; *P. tragardhi* ♀ p. 364 fig.; *P. praecipius* ♀. ♂ p. 364 fig., Sellnick; *P. trägrådhi* ♀ new to Sweden p. 33, Sellnick (4).

Pseudoleptus zelikae sp. nov. ♀ ♂ N. off *Aeluropus* sp., Turkey (at Washington, D.C.) p. 185 fig.; key to species p. 185, Pritchard & Baker.

Pseudonothus gen. nov. [Camisiidae] p. 7; type species *P. hirtus* sp. nov. Angola p. 7, Balogh (1).

Pseudotritia ardua p. 172 fig., Aoki J. I. (1).

Psoroptes cuniculi, morphology and life cycle p. 905 figs.; revision of gen. p. 915; key to species p. 924, Sweatman (3).

Psoroptoides bothrioplax sp. nov. ♂. ♀ off *Chlidonias nigra*, Rabat, Morocco p. 41 fig., Gaud (1).

Pteralloptes megatrichus sp. nov. ♂. ♀ off *Caprimulgus europaeus*, Tanger, Morocco p. 48 fig., Gaud (1).

Pterodectes bilineatus sp. nov. ♂. ♀ off *Caryothraustes canadensis brasiliensis*, Brazil p. 1 figs.; *P. nordestensis* sp. nov. ♂. ♀ off *Caryothraustes canadensis frontalis*, N.E. Brazil p. 4 figs., Berla; *P. merulae* sp. nov. ♂. ♀ off *Turdus merula mauritanica*, Rabat, Morocco p. 126 fig., Gaud.

Pteronyssus chiasma ♀. ♂ redescribed, new hosts p. 337 figs., Berla (1).

Pterygosoma bicolor proto- and deutonymph described p. 92 figs.; *P. gerrhosauri* ♂. proto- and deutonymph and larva described p. 90 figs.; *P. hystrix* p. 89 fig., Jack.

Ptilonyssus nicatoris sp. nov. ♀ in nasal cavities of *Nicator chloris*, Irangi, Belgian Congo p. 294 figs., Fain (6); *P. walterberghi* sp. nov. ♀. ♂ off *Suthora webbiana*, Zoo at Antwerp p. 3 figs., Fain (1).

Ptochacarus banksi sp. nov. ♀ in nest of ant, *Camponotus aeneopilosus*,

Liverpool, New South Wales p. 126 figs.; *P. silvestrii* sp. nov. ♀ Cairns District, Queensland p. 127 figs.; *P. daveyi* ♀. ♂ p. 125 figs.; key to species p. 128; Genus transferred to Klinckowstroemiidae p. 124, Womersley (3).

Punctoribates latilobatus sp. nov. Vitoša, Bulgaria p. 157 fig., Kunst (1); *P. manzanoensis* sp. nov. Manzano, Argentina p. 92 fig., Hammer.

Pyemotes ventricosus new to Czechoslovakia p. 205 figs., Kramář.

Pygmephorus antiquissimus sp. nov. ♀ Helsingland, Sweden p. 67 figs.; *P. gracilis* sp. nov. ♀ Västerbotten, Sweden p. 72 figs.; *P. haarlövi* sp. nov. ♀ Helsingland, Sweden p. 72 figs.; *P. lithobii* sp. nov. ♀ Helsingland, Sweden p. 73.; *P. sellnicki* sp. nov. ♀ Helsingland, Sweden p. 69 fig.; *P. suecicus* sp. nov. ♀ Helsingland, Sweden p. 68 figs.; key to species p. 64, Krczal; *P. antiquissimus* ♀. *P. delanyi* ♀. *P. gracilis* ♀, *P. haarlövi* ♀, *P. lithobii* ♀, *P. mesembrinae* ♀, *P. sellnicki* ♀ and *P. suecicus* ♀ all new to Sweden p. 37, Selinick (4).

Pyroglyphus gen. nov. [Pyroglyphidae] p. 85; type species *P. morlani* sp. nov. ♀. ♂ in nest of *Neotoma albigena*, Santa Fe, New Mexico p. 85 figs., Cunlife.

Raoiella macfarlanei sp. nov. ♀ off olive, Rasel Hila, Cyrenaica p. 257 fig.; *R. indica* ♀. ♂ p. 256 figs.; key to females p. 256, Pritchard & Baker.

Reticulinasus gen. nov. [Argasidae] p. 546; type species *Argas steini* Schulze 1935 p. 546, Schulze.

Rhagidia fragosa sp. nov. Porquerolles Id., Riou Id., France p. 95 figs., Schuster (1).

Rhinophaga pongoicola sp. nov. ♂. ♀ in nasal cavities of Orang-Outan, *Pongo pygmaeus*, Zoo at Antwerp, Belgium p. 323 figs., Fain (7).

Rhipicephalus bursa ♀ p. 77 fig.; *R. sanguineus* ♀ p. 75 fig., Floch & Fauran (1); *R. longipes* ♀ p. 8 fig., Dias (3); *R. sanguineus* p. 101 figs., Boero; *R. ziemannii* p. 92 figs.; *R. ziemannii* forme *aurantiacus* p. 94 figs., Morel & Mouchet (1).

Rhodacarellus revision of British species p. 298; *R. silesiacus* ♂. ♀ p. 302 figs., Sheals.

Rhodacarus revision of British species p. 298, *R. pallidus* ♂. ♀ p. 301 figs.; *R. calcarulatus* Berlese syn. nov. of *R. pallidus* p. 301; *R. roseus* ♂. ♀ p. 300 figs.; *R. manibularis* Berlese syn. nov. of *R. roseus* p. 300, Sheals.

Rhynchaphytoptus harrii sp. nov. ♀ off *Asclepias curassavica*, Vega Alta-Corozal Road, Puerto Rico p. 125 fig., Cromroy.

Rhynchorbates acutus sp. nov. Angola p. 15; *R. serratus* sp. nov. Belgian Congo p. 15, Balogh (1).

Rostrozetes juniperi p. 337 figs., Woolley (4).

Ruandanyssus buboensis sp. nov. ♀. ♂ in nasal cavities of *Bubo africana*, Lephepe, Bechuanaland also from Mozambique p. 292 figs., Fain (6).

Sarcopites Latreille (1802-1803) entered on Official List, type species *Acarus siro scabiei* Linnaeus 1758 p. 75, Direction 94.

Scapheremaeus clavifer sp. nov. Salta, Argentina p. 36 fig.; *S. glaber* sp. nov. Cumbre, Bolivia p. 38 fig.; *S. stratus* sp. nov. Cumbre, Bolivia p. 39 fig.; *S. trirugis* sp. nov. Salta, Argentina p. 37 fig., Hammer; *S. cornutus* sp. nov. Angola p. 8, Balogh (1).

Scheloribates angulatus sp. nov. Chacaltaya, Bolivia p. 73 fig.; *S. elegans* sp. nov. Chulumani, Bolivia p. 77 fig.; *S. latus* sp. nov. Cumbre, Bolivia p. 76 fig.; *S. longior* sp. nov. Cumbre, Bolivia p. 72 fig.; *S. luteomarginatus* sp. nov. Rio Atuel Valley, Argentina p. 72 fig.; *S. obesus* sp. nov. Cumbre, Bolivia p. 76 fig.; *S. (?) pallidulus* p. 73 fig.; *S. parvialatus* sp. nov. Salta, Argentina p. 78 fig.; *S. rectus* sp. nov. Puente Villa, Bolivia p. 77 fig.; *S. rostratus* sp. nov. Rio Caldera Valley, Argentina p. 78 fig.; *S. rugosus* sp. nov. Cumbre, Bolivia p. 75 fig.; *S. striatus* sp. nov. Chacaltaya, Bolivia p. 74 fig.; *S. trichosus* sp. nov. Chacaltaya, Bolivia p. 74 fig., Hammer; *S. bilineatus* sp. nov. Belgian Congo p. 26; *S. reticulatus* sp. nov. Belgian Congo p. 26, Balogh (1).

Schizotetranychus (s. str.) *beckeri* sp. nov. ♀ off Gramineae, Moscow, U.S.S.R. p. 456 fig.; *S. (s.str.) halimodendri* sp. nov. ♀ off Halimodendron, Southern Kazakhstan p. 457 fig., Wainstein; *S. recki* sp. nov. ♀. ♂ off sasa bamboo, Sapporo, Hokkaido, Japan p. 20

figs.; *S. celarius* ♀. ♂ p. 18 figs.; *S. schizophorus* ♀. ♂ p. 15 figs., Ehara (1).

Schöngastia radfordi aefinsis subsp. nov. larva off *Numida meleagris*, Tchad, French Equatorial Africa, also off *Herpestes griseus*, off *Dasyurus incomitus*, off *Lophuromys sikapusi*, off *Oenomys hypoxanthus* p. 413, Taufflieb.

Schoutedenichia (*Pentachia* subgen. nov.) type species *S. rouchoni* Abonnenc 1955 p. 21 fig.; *S. (P.) lorgei* sp. nov. larva off *Dendrohyrax arboreus*, Kisenyi, Belgian Congo p. 22 fig.; *S. (Brennanichia* subgen. nov.) type species *S. penetrans* p. 26 figs.; *S. (B.) haddowi* sp. nov. larva off rodent, Kaabong, Uganda p. 24 figs.; *S. (B.) pirloti* p. 28 figs.; *S. (B.) evansi* sp. nov. larva off *Galago senegalensis*, Nambungo, Tanganyika p. 30 fig.; *S. (B.) berghei* sp. nov. larva off *Thamnomys surdaster*, Lwiro, Belgian Congo also off *Crocidura* sp. p. 32 figs.; *S. (B.) zanzibarica* sp. nov. larva off *Galago senegalensis zanzibaricus*, Zanzibar p. 36 fig.; *S. (B.) dipodilli* sp. nov. larva off *Dipodillus campestris*, Casablanca, Morocco p. 36 fig.; *S. (B.) buxtoni* sp. nov. larva off *Tamiscus böhmi*, Kabambare, Belgian Congo, also off *T. emini* p. 38 fig.; *S. (B.) dureni* sp. nov. larva off *Elephantulus fuscipes*, Doruma, Belgian Congo, also off *Nasilio brachyrhynchus* p. 39 fig.; *S. (Schoutedenichia* subgen. nov.) type species *S. fulleri* Jad. & Ver. 1954 p. 41 figs.; *S. (S.) crocidurae* p. 43 fig.; *S. (S.) morosi* sp. nov. larva off *Otomys* sp., Mont Morosi, Basutoland p. 44 fig.; *S. (S.) paulus paulus* sp. nov. larva off *Crocidura bicolor*, Bukavu, Belgian Congo p. 46 fig.; *S. (S.) paulus major* subsp. nov. larva off *Cricetomys dissimilis*, Bukavu, Belgian Congo, also off *Centropus grilli* p. 47 fig.; *S. (S.) cordiformis* sp. nov. larva off *Mastomys coucha*, Bukavu, Belgian Congo, also *Lemniscomys striatus*, off *Rattus r. frugivorus*, off *Crocidura* sp., off *Thamnomys surdaster* p. 48 figs.; *S. (S.) pilosa* sp. nov. larva off *Thamnomys surdaster*, Belgian Congo, also off *Oenomys hypoxanthus*, off *Mastomys coucha*, off *Crocidura bicolor*, off *Lophuromys aquilus*, off *Dasyurus bentleyae* p. 50 fig.; *S. (S.) andrei* p. 52 fig.; *S. (S.) kivuensis* sp. nov. larva off *Crocidura* sp., Bukavu, Belgian Congo p. 53 fig.; *S. (S.) paraxeri* sp. nov. larva off *Paraxerus cepapi quotus*, Elisabethville,

Belgian Congo p. 55 fig.; *S. (S.) lumsdeni* sp. nov. larva off *Paraxerus* sp., Kruger Nat. Park, Transvaal p. 56 fig.; *S. (S.) trombiculoides* sp. nov. larva off *Scotophilus murinoflavus*, Torit, Sudan p. 59 fig.; *S. (S.) nausheraensis* p. 59 fig.; *S. (S.) jubbulporensis* p. 61 fig.; *S. (S.) dutoiti* p. 62 fig.; *S. (S.) vercammensi* p. 64 fig.; *S. (S.) praomyia* p. 65 fig.; *S. (S.) oyei* sp. nov. larva off *Petrodromus tordayi*, Bikoro, Belgian Congo p. 66 fig.; *S. (Nasichia subgen. nov.)* type species *S. paradoxa* p. 79 fig.; *S. (N.) schoutedeni* p. 67 fig.; *S. (N.) audyi* p. 69 fig.; *S. (N.) congolensis* sp. nov. larva off *Rattus r. frugivorus*, Coquilhatville, Belgian Congo p. 70 fig.; *S. (N.) panai panai* sp. nov. larva off *Mastomys coucha*, Belgian Congo p. 72 fig.; *S. (N.) panai luberoensis* subsp. nov. larva off *Mastomys coucha*, Lubero, Belgian Congo p. 73 fig.; *S. (N.) panai bukarvensis* subsp. nov. larva off *Otomys irroratus*, Bukavu, Belgian Congo p. 74 fig.; *S. (N.) brachiospissi* sp. nov. larva off *Mastomys coucha*, Beni, Belgian Congo, also off *Arvicanthis abyssinicus* p. 75 fig.; *S. (N.) nana* p. 79 fig.; *S. (N.) nana nana* subsp. nov. larva off *Oenomys hypoxanthus*, Kindu, Belgian Congo p. 77 fig. also off *Rattus r. alexandrinus*; *S. (N.) nana gordoni* subsp. nov. larva off *Oenomys hypoxanthus*, Shabunda, Belgian Congo p. 79 fig.; *S. (N.) paradoxa gilleti* p. 83 fig.; *S. (Trisetichia subgen. nov.)* type species *nasilionis* sp. nov. larva off *Nasilio brachyrhynchus*, Elisabethville, Belgian Congo p. 84 figs.; key to species p. 87, Vercammen-Grandjean.

Scutovertex pannonicus sp. nov. Trockenböden, Austria p. 231 fig., Schuster; *S. perforatulus* sp. nov. Sierra Nevada, Spain p. 53 fig., Mihelčić (12).

Sciulus isotrichus sp. nov. ♀ Rasauta: ♂ Gorges de la Chiffa, Algeria p. 37 figs.; gen. discussed p. 36, Athias-Henriot; *S. levis* ♀ new to Sweden p. 29, Sellnick (4); *S. simplex*, immature and adult stages p. 635 figs., Chant (2).

Sellea pulchrum ♀. ♂ deutonym p. 175 figs., Hughes & Jackson.

Sellnickia caudata ♂. ♀ redescribed p. 30 figs., Grandjean (5).

Shariella subgen. nov. see *Haemaphysalis* p. 538, Dias.

Shunsennia hertigi sp. nov. larva off *Apodemus peninsulae*, Sangbonch'on-ni,

Korea, also off *A. agrarius* and *Clethrionomys rufocanus* p. 162 figs.; *S. tarsalis* p. 162 figs., Traub et al.; *S. ochotona* larva p. 95 figs., Allred.

Spelaerorhynchus cubanus sp. nov. ♀ host? Bayamo, Cuba p. 27 figs., Dias (3).

Speleognathopsis bastini sp. nov. ♀ off *Myotis myotis*, Grotte de Han, Belgium p. 342 figs., Fain; *S. (Neospeleognathopsis subgen. nov.)* type species *S. (N.) chiropteri* FAIN 1955 p. 177; *S. (Paraspeleognathopsis)* type species *S. (P.) bakeri* FAIN, 1955 p. 177, Fain (4).

Speleognathus (*Neospeleognathus subgen. nov.*) type species *S. (N.) schoutedeni* Fain 1955 p. 178; *S. (Trispeleognathus subgen. nov.)* type species *S. (T.) striatus* Crossley 1952 p. 178, Fain (4); *S. womersleyi* ♀. larva p. 84 figs., Clark, G. M. (1).

Sphaerobates foreolatus sp. nov. Rio Atuel Valley, Argentine p. 88 fig., Hammer; *S. gratus* p. 67 fig., Mihelčić (10).

Spinturnix euryalis orientalis subsp. nov. ♀. ♂ off bat. *Rhinolophus rouxi*, Tuls Lake Tunnel, Bombay p. 101 figs.; *S. psi* ♀. ♂ p. 97 figs., Hirsgauder & Bal.

Steatoxuss furmani sp. nov. ♀. ♂ off *Lasiurus borealis* [bat], Madison, Indiana p. 80 fig., Tipton & Boese; *S. hipposideros* sp. nov. ♀. ♂ off *Hipposideros cyclops*, Yapo, Ivory Coast p. 242 figs., Till; *S. hubli* sp. nov. ♀. ♂ off bat, *Pipistrellus ceylonicus chrysotrix*, Carla Caves Poona and Hubli, Bombay p. 107 figs., Hirsgauder & Bal.

Stegaracarus andrei sp. nov. Angola p. 33; *S. brevipilis* sp. nov. Tanganyika p. 34; *S. collaris* sp. nov. Angola p. 34; *S. frater* sp. nov. Angola p. 33; *S. machadoi* sp. nov. Angola p. 33; *S. prominens* sp. nov. Belgian Congo p. 34; *S. sol* sp. nov. Tanganyika p. 34, Balogh (1). *S. senex* sp. nov. Utsukushigahara, Nagano Pref., Japan p. 172 fig.; *S. striculus* p. 174 fig., Aoki, J. I. (1).

Steneotarsonemus keiferi sp. nov. ♂. ♀ off *Odontoglossum* orchid, San Mateo Co., California p. 153 figs.; *S. furcatus* p. 156 fig., Beer (1); *S. martorelli* sp. nov. ♂. ♀ off *Pluchea purpurascens*, Penon del Collao, Puerto Rico p. 107 fig.; *S. perezi* sp. nov. ♂. ♀ off *Ananas sativus*, Manati, Puerto Rico p. 109 fig.; key to males of Western

Hemisphere p. 106, Cromroy; *S. erlangensis* ♀ new to Sweden p. 36, Sellnick (4).

Sternostomma paddae sp. nov. ♀ in nasal cavities of *Padda orzivora*, Zoo at Antwerp p. 8 figs., Fain (1); *S. straeleni* sp. nov. ♀. ♂ in nasal cavities of *Cinnyricinclus leucogastrus*, Vitschumbi, Belgian Congo p. 9 figs., Fain (2); *S. tracheacolum* ♀ p. 21 fig., Fain & Carpentier (8).

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Suctobelba acutissima sp. nov. Angola p. 16; *S. flabellifera* sp. nov. Angola p. 17; *S. hamifera* sp. nov. Angola p. 16; *S. mirabilis* sp. nov. Angola p. 16, Balogh (1); *S. baloghi* sp. nov. Dorf Ocsa, Hungary p. 85 figs.; *S. perpendicularata* sp. nov. Florence, Italy p. 82 fig.; *S. bella* p. 82 figs.; *S. nasalis* p. 83 fig.; *S. forsslundi* p. 85 fig., Forsslund; *S. bifoveolata* sp. nov. Cumbre, Bolivia p. 43 fig.; *S. complexa* sp. nov. Argentina and Bolivia p. 46 fig.; *S. elegantula* sp. nov. Chulumani, Bolivia p. 48 fig.; *S. ongioclava* sp. nov. Quebrada de Gallinato, Argentina p. 45 fig.; *S. microclava* sp. nov. Chulumani, Bolivia p. 44 fig.; *S. ornatissima* sp. nov. Argentina and Bolivia p. 47 fig.; *S. quadricarina* sp. nov. Rio Atuel Valley, Argentina p. 43 fig. *S. transversalis* sp. nov. Puente Villa, Bolivia p. 45 fig., Hammer; *S. brachyodon* sp. nov. Sierra Nevada, Spain p. 51 fig., Mihelčík (12); *S. minor* sp. nov. Göltzschach, Austria p. 57 fig.; *S. pulchra* sp. nov. Göltzschach, Austria p. 55 fig.; *S. sexdentata* sp. nov. Göltzschach, Austria p. 58 fig., Mihelčík (10); *S. prelli* sp. nov. Tharandt-Grillenburger Waldes, Germany p. 165 fig., Markel & Meyer (1); *S. latirostris* new to Finland p. 131, Karppinen (4).

Suctoppia gen. nov. [Eremaeidae] p. 17; type species *S. globulifera* sp. nov. Angola p. 17, Balogh (1).

Suidasia medanensis ♀. ♂ p. 14 figs., Parameswaran Pillai, R.

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Tarsonemella beameri sp. nov. ♀ off beetle, *Brontispa mariana*, Saipan, Mariana Is. p. 189 figs., Beer.

Tarsonemoides ellipticus ♀, *T. belemnoides* ♀, *T. uliginosus* ♀ new to Sweden p. 36, Sellnick (4).

Tarsonemus gramineus sp. nov. ♂ off *Paspalum paniculatum*, Rio Piedras, Puerto Rico p. 94 figs.; *T. labrus* sp. nov. ♂. ♀ off *Artocarpus communis*, Rio Piedras, Puerto Rico p. 96 figs.; *T. modicus* sp. nov. ♂. ♀ off *Bixa orellana*, Cayey, Puerto Rico p. 97 figs.; *T. prominens* sp. nov. ♂. ♀ off dwarf palm, Rio Piedras, Puerto Rico p. 99 figs.; *T. purpurus* sp. nov. ♂. ♀ off *Rapanea ferruginea*, Comerio-Barrio, Palomas, Puerto Rico p. 100 figs.; *T. rebros* sp. nov. ♂ off *Alchornea latifolia*, Maricao Insular Forest, Puerto Rico p. 102 fig.; *T. rotundus* sp. nov. ♂. ♀ off *Pterocarpus* sp., El Verde, Puerto Rico p. 103 fig.; *T. tertiapilus* sp. nov. ♂. ♀ off *Elaeis guineensis*, Rio Piedras, Puerto Rico p. 104 fig.; key to ♂♂ of Western Hemisphere p. 92, Cromcy; *T. fennicum* ♀, *T. floricolus* ♀ p. 35, *T. nodusus* ♀ and *T. talpae* ♀ p. 36 all new to Sweden, Sellnick (4).

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Tegoribates americanus sp. nov. Arroyo de la Cruz de Piedra, Argentina p. 96 fig., Hammer; *T. subniger* p. 276 fig., Woolley (3).

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Tetrochthonius gen. nov. [Hypochothioniidae] p. 23; type species *T. clavatus* sp. nov. Salta, Argentina p. 23 fig., Hammer.

Thrombella favosa p. 16 figs., André.

Thyasella mandibularis torrenticola subsp. nov. ♂ Schaffhauser Mühle, Switzerland p. 197 fig., Schwoerbel.

Tiphys convexipalpis ♀ p. 503 figs., Ponyi & Ponyi.

Topobates gen. nov. [Oribatulidae] p. 356; type species *T. granifer* sp. nov. ♂. ♀ Mont-Dore, France p. 356 fig., Grandjean (3).

Torrenticola (*T.*) *convexiscutata* sp. nov. ♂. ♀ Manoka, Duala, Cameroons p. 92 figs.; *T. microstoma* ♀ p. 99 figs., Viets, K.; *T. andrei* ♂ p. 70 figs.; *T. madritensis* ♂ p. 72 figs.; *T. ungeri* ♂. ♀ p. 68 figs., Viets, K. O. (4); *T. stadleri* p. 9 figs., Viets, K. O. (2).

Trachyribates dorsalis sp. nov. Angola p. 27, Balogh (1); *T. nodosus* sp. nov. Chulumani, Bolivia p. 103 fig., Hammer; *T. zeteki* p. 258 fig., Woolley (3).

Trägårdhula crassipalpis sp. nov. Dundo, Angola p. 122 figs., André.

Trhypochthonius africanus sp. nov. Angola p. 4, Balogh (1); *T. arnoldii* sp. nov. Voroshilovgrad province, USSR. p. 206 fig., Bashkirova; *T. breviclava* sp. nov. Arroyo de la Cruz de Piedra, Argentina p. 24 fig., Hammer.

Trichoribates latincisa p. 263 figs., *T. boletorum* p. 264 figs.; *T. lamellata* p. 265 figs., Woolley (3).

Trichosurolaelaps emanuelae sp. nov. ♀. ♂ off *Echymipera kalabu kalabu* (bandicoot), Gona, Queensland p. 355 figs.; *T. striatus* sp. nov. ♀. ♂ off *Pseudoechirus laniginosus* (ring-tailed possum), Mt. Nebo, Queensland p. 356 figs.; *T. key* to Australian species p. 355, Domrow.

Trichouropoda munroi sp. nov. ♀. ♂. N. Pretoria, Transvaal p. 219 figs., Ryke (1); *T. ovalis* nymph new to Sweden p. 33, Sellnick (4).

Trimalaconothrus africanus sp. nov. Angola p. 5; *T. planus* sp. nov. Angola p. 6; *T. reticulatus* sp. nov. Angola p. 5; *T. similis* sp. nov. Angola p. 6; *T. soror* sp. nov. Angola p. 6, Balogh (1); *T. australis* sp. nov. Argentina and Bolivia p. 26 fig.; *T. montanus* sp. nov. Chacaltaya, Bolivia p. 27 fig., Hammer.

Trisetacus quadrisetus new to California p. 242, Keifer.

Trisetichia subgen. nov. see Schoutedenichia, Vercammen-Grandjean.

Trispaleognathus subgen. nov. see
Speleognathus p. 178, Fain (4).

Trombicula alba sp. nov. larva off lesser horseshoe bat, *Rhinolophus c. cornutus*, Mizunashi, Fukuoka Pref., Japan p. 212 fig.; *T. uchidai* sp. nov. larva off bat, *Miniopterus schreibersii fuliginosus*, Iwarayama copper mine, Fukuoka Pref., Japan p. 209 fig., Kamo et al. (1); *T. hampii* sp. nov. larva off bat, *Rhinophoma hardwicki*, Hampi, Mysore p. 128 figs., Hiregauder & Bal; *T. hasei* sp. nov. larva off *Lacerta viridis*, *L. taurica* and *L. rilineata*, Topolog and Hanul Conache, Rumania p. 441 figs., Feider (2); *T. Leptotrombidium* gemiticula sp. nov. larva off *Apodemus peninsulae*, Munsan-ni, Korea, also off *Apodemus agrarius* p. 145 figs.; *T. (L.) halidasys* sp. nov. larva off *Apodemus agrarius*, Yangwon-ni, Korea p. 155 figs.; *T. (L.) pumilis* sp. nov. larva off chipmunk, *Eutamias amoenus*, N. of Seoul, Korea p. 153 figs.; *T. (L.) tecta* sp. nov. larva off *Apodemus agrarius*, Chip'o, Korea also off *Microtus fortis* p. 151 figs.; *T. (L.) ceta* sp. nov. larva off *Apodemus agrarius*, Munsan-ni, Korea p. 148 figs., Fraub et al.; *T. quasiscicei* sp. nov. larva off *Dasyurus inconstans*, off *Lemniscomys striatus*, off *Mastomys coucha*, off *Rattus frugivorus* and *R. alexandrinus*, Brazzaville, Belgian Congo p. 415 fig., Taufflieb; *T. (T.) reesi* sp. nov. larva off *Peromyscus maniculatus*, Lake Blanche, Utah p. 97 figs., Allred; *T. termithophila* sp. nov. Quilenges, Angola p. 120 figs.; *T. scapulosa* p. 118 figs., André; *T. anous* larva p. 67 figs.; *T. ablephara* larva p. 38 figs.; *T. wachmanni* larva p. 67 figs., Kano et al.; *T. agutii* p. 5 fig.; *T. patatas* p. 8 fig.; *T. canis* p. 4 fig.; *T. fulfreddugesi* p. 6 fig.; *T. goldii* p. 11 fig.; *T. avis* p. 16 fig.; *T. pacae* p. 15 fig.; *T. psittaci* p. 3 fig.; *T. sinnamaryi* p. 17 fig., Floch & Fauran; *T. palpalis* larva p. 186 figs., Liu, C.-W.; *T. sachvatkini* new to Poland p. 745, Kozlowski (1).

Trombigastia (Ascoshongastoides) ascoshongastoides sp. nov. larva off *Hippobosca caffer centralis*, Irangi, Belgian Congo p. 10 figs.; *T. (A.) berghei* sp. nov. larva off *Hippobosca caffer centralis*, Irangi, Belgian Congo p. 12 figs.; *T. (Scapularia) scapularia* sp. nov. larva off *Hippobosca caffer centralis*, Irangi, Belgian Congo p. 14

figs.; *T. (S.) lipoxena* larva p. 16 fig.; *T. (Trombigastia) hirsuta* sp. nov. larva off *Rousettus (L.) angolensis*, Katana, Belgian Congo p. 18 figs.; *T. (T.) laarmani* sp. nov. larva off *Hippobosca caffer centralis*, Irangi, Belgian Congo p. 20 figs.; *T. (T.) minor* sp. nov. larva off *Hippobosca caffer centralis*, Irangi, Belgian Congo p. 30 figs.; *T. (T.) nycteris* sp. nov. larva off *Nycterus h. hispida*, Astrida, Ruanda-Urundi p. 30 figs.; *T. (T.) roussetti* sp. nov. larva off *Rousettus (L.) angolensis*, Nyakibanda, Ruanda-Urundi p. 16 figs.; *T. (T.) vinckei* sp. nov. larva off *Hippobosca caffer centralis*, Irangi, Belgian Congo p. 22 figs.; *T. (T.) brevitarsa* larva p. 24 fig.; *T. (T.) cadei* p. 26 fig.; *T. (T.) dimolinae* larva p. 28 fig.; *T. (T.) harrisoni* larva p. 29 fig.; *T. (T.) mounti* larva p. 24 fig., Vercammen-Grandjean & Fain.

Trouessartia angustifolia sp. nov. ♂. ♀ off *Dicrurus atripennis* and *D. adsimilis* (Dicruridae), Ambam and Yaoundé, South Cameroons p. 36 figs.; *T. aperta* sp. nov. ♂. ♀ off *Spermophaga haematina* (Ploceidae), Yaoundé and Edéa, South Cameroons p. 39 figs.; *T. blanci* sp. nov. ♂. ♀ off *Nigrita canicapilla* (Ploceidae), Yaoundé, Cameroons p. 42 figs.; *T. clytospizae* sp. nov. ♂. ♀ off *Clytospiza monteiri* (Ploceidae), Yaoundé, Cameroons p. 43 figs.; *T. coalescens* sp. nov. ♂. ♀ off *Pyrrhurus simplex* (Pycnonotidae), Yaoundé, South Cameroons, also off *Pyrrhurus flavigollis flavigula*, off *Arizelochichla falkensteinii* and off *Andropadus gracilis* p. 45 figs.; *T. concinna* sp. nov. ♂. ♀ off *Spermestes bicolor poensis* (Ploceidae), Yaoundé, South Cameroons p. 47 figs.; *T. curtifolia* sp. nov. ♂. ♀ off *Pedilorphynchus comitatus* (Muscicapidae), Yaoundé, South Cameroons p. 50 figs.; *T. curtispina* sp. nov. ♂. ♀ off *Nigrita canicapilla* (Ploceidae), Yaoundé, South Cameroons p. 52 figs.; *T. decorata* sp. nov. ♂. ♀ off *Spermestes bicolor poensis* and *S. haematinus* (Ploceidae), Yaoundé, South Cameroons p. 54 fig.; *T. estrildae* sp. nov. ♂. ♀ off *Estrilda nonnula* and *E. melpoda* (Ploceidae), Yaoundé, South Cameroons p. 56 figs.; *T. gallardi* sp. nov. ♂. ♀ off *Amblyospiza albifrons saturatus* (Turdidae), Yaoundé, South Cameroons p. 56 figs.; *T. kiefferi* sp. nov. ♂. ♀ off *Nigrita canicapilla* (Ploceidae), Yaoun-

dé, South Cameroons p. 57 fig.; *T. longifolia* sp. nov. ♂. ♀ off *Alethe castanea* (Turdidae), Ambam, South Cameroons p. 58 figs.; *T. minuscula* sp. nov. ♂. ♀ off *Estrilda nonnula* and off *E. melpoda* (Ploceidae), Yaoundé, South Cameroons p. 59 figs.; *T. modesta* sp. nov. ♂. ♀ off *Psalidoprocne petiti* (Hirundinidae), Yauoudé, South Cameroons p. 59 figs.; *T. multidentata* sp. nov. ♂. ♀ off *Clytospiza monteiri* (Ploceidae), Yaoundé, South Cameroons p. 60 figs.; *T. ocellata* sp. nov. ♂. ♀ off *Pycnonotus barbatus gabonensis* (Pycnonotidae), Yaoundé, South Cameroons p. 61 figs.; *T. paucidentata* sp. nov. ♂. ♀ off *Estrilda nonnula* (Ploceidae), Yaoundé, South Cameroons p. 62 figs.; *T. plororum* sp. nov. ♂. ♀ off *Ploceus aurantius* and *Melanopteryx nigerrimus* (Ploceidae), Yaoundé, South Cameroons p. 63 figs.; *T. poeopterae* sp. nov. ♂. ♀ off *Poeoptera lugubris* (Sturnidae), Yaoundé, South Cameroons p. 64 figs.; *T. rousseli* sp. nov. ♂. ♀ off *Spermophaga haematina* (Ploceidae), Yaoundé, South Cameroons p. 65 figs.; *T. stizorrhinae* sp. nov. ♂. ♀ off *Stizorrhina frazeri* (Muscicapidae), Yaoundé, South Cameroons p. 66 figs.; *T. subacuta* sp. nov. ♂. ♀ off *Pedilophynchus comitatus* (Muscicapidae), Yaoundé, South Cameroons p. 66 figs.; *T. tilli* sp. nov. ♂. ♀ off *Cossipa cyanocampiter* (Turdidae), Ambam, South Cameroons p. 67 figs.; *T. viduae* sp. nov. ♂. ♀ off *Vidua macroura* (Ploceidae), Yaoundé, South Cameroons p. 68 figs.; *T. baupi* p. 41 fig.; *T. bifurcata* p. 42 figs.; *T. santos-diasi* p. 65 fig., Gaud & Mouchet (2); *T. crucifera* sp. nov. ♂. ♀ off *Hirundo rustica*, Rabat, Morocco p. 128 figs.; *T. incisa* sp. nov. ♂. ♀ off *Turdus merula mauritanica*, Rabat, Morocco p. 129 figs.; *T. inexpectata* sp. nov. ♂. ♀ off *Sylvia melanocephala*, Rabat, Morocco p. 130 figs.; *T. piscicauda* sp. nov. ♂. ♀ off *Hirundo rustica*, Rabat, Morocco p. 132 figs.; *T. 14-dentata* sp. nov. ♂. ♀ off *Cisticola juncidis cisticola*, Rabat, Morocco p. 132 figs.; *T. simillima* sp. nov. ♂. ♀ off *Muscicapa striata*, Rabat, Morocco p. 134 figs.; *T. bifurcata* ♂ p. 128 figs., Gaud.

Tur uniscutatus ♀. ♂. N. redescribed p. 542 figs., Furman & Tipton.

Turbinoptes congolensis sp. nov. ♂. ♀ in nasal cavities of *Actophilornis*

africanus, Vitshumbi, Belgian Congo p. 5 figs., Fain (2).

Tuxenia gen. nov. [Notaspidae] p. 82; type species *T. complicata* sp. nov. Rio Atuel Valley, Argentina p. 82 fig., Hammer.

Tydeus bakeri sp. nov. ♀ off *eugenia*, Albany, California p. 618 figs.; biology p. 601, Brickhill; *T. totensis* new to Sweden p. 39, Sellnick (4).

Typhlodromus anchialis sp. nov. ♀. ♂ off strawberry leaves, Watsonville, California p. 473 figs.; *T. brevispinus* sp. nov. ♀. ♂ off strawberry leaves, Watsonville, California p. 473 figs., Kennett; *T. annectens* sp. nov. ♀. ♂ off *Trema floridana*, Coral Gables, Florida also off *Morus rubra*, off *Callicarpa americana*, off *Verbesina virginica*, off *Hamelia patens*, off *Eriobotrya japonica*, off *Tetrazygia bicolor*, off *Cercis canadensis* p. 75 figs.; *T. ecclesiasticus* sp. nov. ♀ off *Leguncularia racemosa*, Coral Gables, Florida also off *Tecoma stans* p. 73 figs.; *T. ellipticus* sp. nov. ♀. ♂ off *Conocarpus erecta*, Coral Gables, Florida also off *Achras zapota*, off *Bursera simaruba*, off *Laguncularia racemosa* p. 73 figs.; *T. jackmickleyi* sp. nov. ♀ off *Conocarpus erecta*, Coral Gables, Florida p. 75 figs., De Leon; *T. chilensis* sp. nov. ♀. ♂ off *Eichhornia crassipes*, Chile p. 55 figs., Dosse (1); *T. corticis* sp. nov. ♀. ♂ off trunk of apple tree, Starr's Point, Nova Scotia p. 429 figs., life-history and food habits p. 430; *T. tiliæ*, characters, life-history, food habits p. 430, Herbert; *T. (T.) hartlandrowei* sp. nov. ♀ from nest of social spiders, *Agelena* sp., Kampala, Uganda p. 580 figs., Evans; *T. japonicus* sp. nov. ♀ off *Mallotus japonicus*, Koshino-o, Japan p. 56 figs.; *T. finlandicus* ♀ p. 53 figs.; *T. longispinosus* ♀ p. 55 figs., Ehara; *T. pectinatus* sp. nov. ♀ Baraki, Algeria p. 179 fig.; *T. scutalis* sp. nov. ♀. ♂ Rovigo, Algeria p. 183 fig.; *T. key to finlandicus* group p. 182, Athias-Henriot (1); *T. abberans* p. 3 fig.; *T. aceri* p. 3 fig.; *T. bakeri* p. 3 fig.; *T. chilensis* p. 3 fig.; *T. cucumeris* p. 5 fig.; *T. finlandicus* p. 5 fig.; *T. longipilis* p. 5 fig.; *T. masseei* p. 6 fig.; *T. rhenanus* p. 6 fig.; *T. soleiger* p. 7 fig.; *T. tiliæ* p. 7 fig.; *T. tiliarum* p. 7 fig.; *T. zwölferi* p. 8 fig., characteristics of spermathacae, Dosse; *T. aberrans* p. 612 figs.; *T. aceri* p. 626 figs.; *T. bakeri* p. 605 figs.; *T. cu-*

umeris p. 626 figs.; *T. finlandicus* p. 611 figs.; *T. marinus* p. 630 figs.; *T. masseei* p. 622 figs.; *T. newsami* p. 633 figs.; *T. occidentalis* p. 630 figs.; *T. reticulatus* p. 618 figs.; *T. rhenanus* p. 615 figs.; *T. soleiger* p. 618 figs.; *T. tiliace* p. 608 figs.; *T. tiliarum* p. 622 figs.; *T. umbricus* p. 612 figs., immature and adult stages, Chant (2); *T. cucumeris* ♀, *T. finlandicus* ♀ and *T. tiliace* ♀ new to Sweden, Sellnick (4); *T. tineivorans* ♀. ♂ p. 24 figs., Parameswaran Pillai.

Tyroglyphus Latreille 1796 = *Acarus annaeus* 1758 p. 76, Direction 94.

Tyrrellia hibbardi sp. nov. ♂. ♀ Kansas springs p. 11 figs., Mitchell & Mitchell (2).

Uroactinia gen. nov. [Uropodina] p. 274; type species *Uropoda consanguinea* Berlese p. 274; included *Uropoda hippocrepea* Berlese and *Urobovella caricinata* Trägårdh p. 274, Zirngiebl, I. N. Sellnick (2); *U. (Chiropturopoda subgen. nov.) coprophila* sp. nov. ♀. ♂ N. Makapans Cave, Transvaal p. 274 figs., Sellnick (2).

Urodiscella potchefstroomensis sp. nov. ♀ Potchefstroom, Transvaal p. 223 figs.; Ryke (1).

Uroobovella (Urocicella) browningi sp. nov. ♀. ♂. N. Potchefstroom, Transvaal p. 227 figs., Ryke (1).

Urosternella (Neoseius ?) neptuni sp. nov. Porquerolles Id., Jarre Id., Riou Id., France p. 89 figs., Schuster (1); *U. marginata* nymph new to Sweden p. 33, Sellnick (4).

Valgothrombium africanum sp. nov. Dundo, Angola p. 104 figs., André.

Vasates ambrosii sp. nov. ♀. ♂ on eaves of peach, Trieste, Italy p. 311 figs., Lombardini (2); *V. domingensis* sp. nov. ♀. ♂ off *Petitia domingensis*, Susua Forest, Puerto Rico p. 122 fig., Cromroy; *V. rhodensis* sp. nov. ♀ off *Salix* sp., Newport, Rhode Id. p. 247 figs.; *V. celtidis* sp. nov. ♀ off *Celtis occidentalis*, Bradley, Illinois p. 248 figs., Keifer.

Veigaia sellnicki sp. nov. Lienz, Austria p. 249 fig., Mihelčič (18).

Whartonibrennani sp. nov. larva off bat, *Hipposideros bicolor fulvus*, Carla Caves, Bombay p. 125 figs., Hiregauder & Bal.

Williamsia gen. nov. [Notaspidae] p. 97; type species *W. elosneadensis* sp. nov. Argentina and Bolivia p. 97 fig., Hammer.

Xenotarsonemus cadeae sp. nov. ♂. ♀ off *Centrosema virginiana*, Maricao Insular Forest, Puerto Rico p. 115 fig., Cromroy.

Xylobates iowaensis p. 338 figs., Woolley (4).

Zercon aberrans sp. nov. Cáceres, Spain p. 287 fig.; *Z. applicatus* sp. nov. Tangelranker, Spain p. 289 fig.; *Z. inaequalis* sp. nov. Vallecás, Spain p. 288 fig.; *Z. similis* sp. nov. Madrid, Spain p. 288 fig., Mihelčič (11); *Z. aberrans* sp. nov. MIHELČIČ ♀ Ben Lomond, California p. 324 fig.; *Z. alaskanensis* sp. nov. ♀ Fort Richardson, Alaska p. 325 fig.; *Z. americanus* sp. nov. ♀ Ben Lomond, California p. 352 fig.; *Z. andrei* sp. nov. ♂. ♀ France p. 340 fig.; *Z. baloghi* sp. nov. ♀ Aggtelek, Hungary p. 355 fig.; *Z. carpathicus* sp. nov. ♀ Siebenburgen, Germany p. 340 fig.; *Z. forsslundi* sp. nov. ♂ Sweden, ♀ Lapland pp. 343, 350 fig.; *Z. guadarramicus* sp. nov. MIHELČIČ ♀ Guadarrama Mts., Spain p. 346 fig.; *Z. hispanicus* sp. nov. ♀ Spain p. 353 fig.; *Z. klingei* sp. nov. ♀ MIHELČIČ, Columera, Spain p. 352 fig.; *Z. minimus* sp. nov. ♀ Ben Lomond, California p. 324 fig.; *Z. vacuus* var. *hungaricus* var. nov. ♀ Velencer Mt., Hungary p. 358 fig.; *Z. abaculus* ♀ p. 342 fig.; *Z. alpinus* ♀ p. 356 fig.; *Z. anomalus* ♀ p. 326 fig.; *Z. arcuatus* ♀ p. 334 fig.; *Z. badensis* ♀ p. 350 fig.; *Z. blesti* ♀ p. 344 fig.; *Z. colligans* ♀ p. 332 fig.; *Z. curiosus* ♀ p. 348 fig.; *Z. dampfi* ♀ p. 337 fig.; *Z. echinatus* ♀ p. 349 fig.; *Z. fenestralis* ♀ p. 328 fig.; *Z. forliensis* ♀ p. 336 fig.; *Z. franzi* ♀ p. 329 fig.; *Z. inornatus* ♀ p. 337 fig.; *Z. italicus* ♀ p. 333 fig.; *Z. joduthae* ♀ p. 359 fig.; *Z. keiseri* ♀ p. 334 fig.; *Z. latissimus* ♀ p. 348 fig.; *Z. leitnerae* ♀ p. 322 fig.; *Z. montanus* ♀ p. 336 fig.; *Z. peltatus* ♀ p. 358 fig.; *Z. perforatus* ♀ p. 331 fig.; *Z. ratisbonensis* ♀ p. 344 fig.; *Z. romagniolus* ♀ p. 331 fig.; *Z. sarasinorum* ♀ p. 343 fig.; *Z. sellnicki* ♀ p. 339 fig.; *Z. solenites* nymph p. 346 fig.; *Z. spatulatus* ♀ p. 339 fig.; *Z. triangularis* ♀ p. 356 fig.; *Z. tuberosus* ♀ p. 331 fig.; *Z. vacuus* ♀ p. 355 fig.; *Z. zangherii* ♀ p. 327 fig.; *Z. zelawaiensis* ♂. ♀ p. 329 fig.; *Z. schweizeri* ♀ p. 342 fig.; revision of

genus p. 314, Sellnick; *Z. berlesei* sp. nov. ♀ Rome, Italy p. 117 fig.; *Z. similis* sp. nov. ♀ Rome, Italy p. 115 fig., Sellnick (1); *Z. fallax* sp. nov. Lienz, Austria p. 144 fig.; *Z. dubius* sp. nov. Lienz, Austria p. 145 fig.; *Z. propinquus* sp. nov. Lienz, Austria p. 148 fig.; *Z. suecicus* var. *squamornatus* var. nov. Lienz, Austria p. 146 fig., Mihelčič (17); *Z. inechinatus* sp. nov. Austria p. 251 fig., Mihelčič (18); *Z. nevadicus* sp. nov. Sierra Nevada, Spain p. 38 fig., Mihelčič (12).

Zercoseius macaruleyi Hughes 1948 = *Klemmania plumosa* (Oudemans) 1902 p. 185, Samšinák (1); *Z. spathuliger* ♀ p. 196 figs., Evans (2).

Zwirchia guentheri ♀. ♂ deutonym. p. 178 figs.; *Z. colocasiae* ♀. ♂ p. 182 figs., Hughes & Jackson.

Zygoribatula dentata sp. nov. Angola p. 26, Balogh (1); *Z. granulata* sp. nov. Borovec, Bulgaria p. 25 figs., Kunst (2); *Z. interrupta* new to Sweden p. 51, Sellnick (4).

ANTHRACOMARTI

†*Anthracomartus* sp. p. 50 fig., Copeland.

KUSTARACHNIDA

No record.

HAPTOPODA

No record.

TRIGONOTARBI

No record.

PHALANGIOTARBI

No record.

ARCHITARBI

No record.

PENTASTOMIDA

Armillifer armillatus, in man p. 374 fig., Gratama & Thiel; *A. moniliformis* in *Macacus cynomolgus* p. 755, Kozłowski et al. (3).

Linguatula serrata in man p. 454, Papadakis & Hourmouziadis; *L. serrata* in *Cavia cobaya* p. 155 and 197, Žuković & (1).

TARDIGRADA

Batillipes carnonensis sp. nov. Carnon, Hérault, France p. 430 fig., Fize.

Echiniscus clavisetosus sp. nov. Göltzschach, Austria p. 662 fig., Mihelčič (5); *E. clavisetosus* sp. nov. Maria Rein, Austria p. 105 fig., Mihelčič (14); *E. merokensis*, systematic position p. 58, Ramazzotti; *E. rosaliae* sp. nov. Studelgrat, Tirol p. 461 fig., Mihelčič (2).

Hypsibius (Isohypsbius) bulbifer sp. nov. Karintia, Austria p. 664 fig.; *H. (Diphason) latipes* sp. nov. locality? p. 668 fig.; *H. (D.) angustatus* p. 666 fig., Mihelčič (5); *H. (Isohypsbius) cyrilli* sp. nov. Alpes de Gesäuse, Italy p. 474 fig.; *H. (I.) tuberculoides* sp. nov. Osttirol p. 465 fig.; *H. (I.) franzi* sp. nov. Osttirol p. 466 fig.; *H. (Diphason) mariae* sp. nov. Osttirol p. 470 fig., Mihelčič (2); *H.* key to species p. 102, Ramazzotti (1).

Macrobiotus striatus sp. nov. Spain p. 520 figs., Mihelčič; *M. terricola* sp. nov. Osttirol p. 463 fig.; *M. kollerii* sp. nov. Holzgraben, Italy p. 473 fig., Mihelčič (2); *M.* key to eggs p. 76; key to species p. 86, Ramazzotti (1).

Pseudechiniscus megacephalus sp. nov. Mixnity, Italy p. 472 fig., Mihelčič (2); *P. dicrani* p. 660 fig., Mihelčič (5).

CHILOPODA

Faunal list.—Avranches, France, Lebrun; Calabria, Italy, Manfredi; Czechoslovakia (Tatra), Dobroruka (1); Korea, Paik.

Bothroplys asperatus, life history p. 217 figs., Murakami.

Cormocephalus granulipes sp. nov. Ngoye Forest, Zululand p. 299 fig., Lawrence.

Cryptops (Trigonocryptops) bokunensis sp. nov. ♂. ♀ Kivu, Belgian Congo p. 13 figs., Kraus; *C. franzi* sp. nov. Regenwald between Gazi and Webo, Belgian Congo p. 56 figs., Dobroruka (2); *C. denmarki* sp. nov. Madeira Point, Florida p. 13, Chamberlin; *C. goiasus* sp. nov. Goias, Brazil p. 58, Chamberlin (3); *C. anomalans hirsutus* subsp. nov. ♂ Novo-Rossiisk, Tuapin region, Krasnaya Polyana, Krasnodar Land p. 190 fig., Folkmanova; *C. savignyi* new to Czechoslovakia p. 157 fig., Dobroruka; *C. croaticus* new to Rumania p. 321 figs.; *C. parisi rhenanus* new to Rumania p. 326 figs.; *C. trisulcatus* new to Rumania p. 325 figs.; *C. anomalans* p. 324 figs.; *C. croaticus burzenlandicus*

p. 321 figs.; *C. hortensis* p. 328 figs.; *C. parisi* p. 326 figs., Matic (6).

Ethmostigmus californicus sp. nov.
El Dorado Co., California p. 185 figs., Chamberlin (4).

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Sigmaria nantahala sp. nov. ♂ ♀
Nantahala, Swain Co., North Carolina
p. 281 figs.; Status of genus p. 284,
Hoffman (1).

Sigodesmus horticolus sp. nov. ♂ ♀
Dar es Salaam, Tanganyika Territory
p. 6 figs., Kraus (3).

Solenozophyllaria gen. nov. [Odonto-
pygidae] p. 77; type species *S. calcarata*
sp. nov. ♂ ♀ Quilengues, Angola p. 77
figs.; *S. caporolensis* sp. nov. ♂ Caporolo,
Angola p. 79 figs.; *S. litoralis* sp. nov.
♂ ♀ Moçâmedes, Angola p. 80 figs.,
Kraus (1).

Solenozophyllum katagaense sp. nov.
♂ ♀ Kankunda, Belgian Congo p. 50
figs.; *S. kazibaense* sp. nov. ♂ ♀
Kaziba, Belgian Congo p. 51 figs.;
S. lusingaense sp. nov. ♂ ♀ Kamitungu-
lu, Belgian Congo p. 53 figs., Kraus.

Speophilosoma akiyoshense sp. nov.
♂ Tanuki-ana, Yamaguchi-ken, Japan
p. 298 fig., Miyosi (3).

Sphaerotherium (*Tetraconosoma*) *alti-*
cola sp. nov. ♀ Mt. Morosi, Basutoland
p. 69 figs.; *S. (T.) capense* sp. nov. ♂ ♀
Table Mountain, Cape Province p. 47
figs.; *S. (T.) eucalyptophilum* sp. nov.
♂ ♀ Zoutpansberg, Transvaal p. 60
figs.; *S. (T.) fulvum* sp. nov. ♂ Zuurberg
Pass, Cape Province p. 67 figs.; *S. (T.)
hanströmi* sp. nov. ♂ ♀ Pietermaritz-
bur, Natal p. 62 figs.; *S. (T.) mahaium*
sp. nov. ♂ ♀ Natal National Park, Natal p. 51
figs.; *S. (T.) pinnatum* sp. nov. ♀ Bloukrans
River, Cape Province p. 76 fig.; *S. (T.)
similare* sp. nov. ♂ ♀ Tzitzikama
Forest, Cape Province p. 82 figs.; *S.
(T.) steppense* sp. nov. ♂ Middleton,
Cape Province p. 65 figs.; *S. (T.)
tzitzikamum* sp. nov. Tzitzikama Forest,
Cape Province p. 70 figs.; *S. (T.)
zuluense* sp. nov. ♀ Hluhluwe Game
Reserve, Zululand p. 74 fig.; *S. (T.)
weberii* *afoveatum* subsp. nov. ♂ Table
Mountain, Cape Province p. 46; *S. (T.)
weberii* ♂ ♀ p. 43 figs.; *S. (T.) com-*
mune ♀ p. 58 fig.; *S. dorsaloide* p. 79
figs.; *S. (T.) trichopygum* ♂ ♀ p. 56
fig.; *S. (T.) tuberosum* ♂ ♀ p. 56 fig.;
S. (Sphaerotherium) rudebecki sp. nov.
♂ ♀ Quthing, Basutoland p. 88 figs.;
S. (S.) tomentosum sp. nov. ♂ ♀ Natal
National Park, Natal p. 96 figs.; key to
species in groups pp. 59, 79, 87, 99,
Schubart (2).

Spinotarsus bandeirensis sp. nov. ♂
Tchvinguiro, Angola p. 75 figs.; *S.
donguenensis* sp. nov. ♂ Donguena,
Angola p. 77 figs., Kraus (1); *S. serru-*
latus sp. nov. ♂ ♀ Gorges de la Pelenge,
Belgian Congo p. 44 figs., Kraus.

Spirostreptus ineptus sp. nov. ♂ Kas-
wabilenga, Belgian Congo p. 33 figs.,
Kraus; *S. (Spirostreptus) msalaensis* sp.
nov. ♂ ♀ Msala, Tanganyika Territory
p. 9 figs.; *S. (S.) nebularius* sp. nov. ♂
Lukwangule Mt., Tanganyika Territory
p. 10 figs., Kraus (3).

Striaria shastae sp. nov. ♀ Shasta Co.,
California p. 182, Causey.

Stygioglomeris provincialis p. 847 figs.,
Demange (7).

Styloidesmus horridus p. 187 figs.; S. status of genus p. 184, Hoffman (6).

Sundania serrifer ♂ p. 55 fig., Kraus (1).

Syndesmogenus luachimonus ♂ p. 81 figs., Kraus (1).

Tachypodoiulus niger p. 53 figs., Blower.

Tetracion gen. nov. [Lysiopetalidae] p. 5; type species *T. jonesi jonesi* sp. nov. ♂. ♀ Bat Cave, Marshall Co., Alabama p. 6 figs.; *T. jonesi antraeum* subsp. nov. ♂. ♀ Barclay Cave, Madison Co., Alabama p. 8 figs., Hoffman (3).

Trichogonostreptus ternetzi ♂ p. 209 figs., Schubart.

Trichopolydesmus eremitis ♂ p. 340 figs., Ceuca.

Troglocambala gen. nov. [Cambalidae] p. 9; type species *T. loomisi* sp. nov. ♂ Turk's Cave, Conecuh Co., Alabama p. 10 figs., Hoffman (3).

Ulodesmus fossor sp. nov. ♂. ♀ Oribi, Natal p. 280 fig.; *U. robustus* sp. nov. ♂. ♀ Ingwavuma, Zululand p. 279 fig.; *U. schubarti* sp. nov. ♂. ♀ Kranskop, Natal p. 282 fig., Lawrence.

Vaferaria gen. nov. [Striariidae] p. 179; type species *Striaria imberbis* Loomis p. 183; *V. imberbis* comb. nov. p. 183, Causey.

†*Xylobius sigillariae* p. 53 fig., Copeland; †*X.* in Permian, Coffee Creek, Texas p. 239, Baird.

Xylophageuma zschokkei lorioli subsp. nov. ♂. ♀ Carrière souterraine de Champcommeaux, Alligny, France p. 55 figs., Demange (6).

SYMPHYLA

Key to species of Czechoslovakia p. 194, Dobroruka (3).

Faunal list.—Korea, Paik; Angola and Congo Belge, Juberthie-Jupeau.

Sympylella *winkleri* p. 194 figs.; *S. horrida* new to Czechoslovakia p. 193, Dobroruka (3).

PAUROPODA

Allopauropus (Decapauropus) alsiosus sp. nov. ♂ Montpellier, France p. 403 fig.; *A. (D.) pseudomillotianus* sp. nov. ♀ Montpellier, France p. 402 fig., Remy & Balland (4); *A. declotrei* sp.

nov. ♀ Rufisque, Senegal p. 1173 figs., Remy; *A. singularis* sp. nov. ♂. ♀ Keneba, Gambia p. 436 figs.; *A. aristatus* ♂ p. 438 fig., Remy (1).

Asphaeridiopus capillatus sp. nov. Ariége, France p. 407 fig., Remy & Balland (4).

Fagepauropus hesperius ♀ p. 440 fig., Remy (1).

Polypauropus murphyi sp. nov. ♀ Keneba, Gambia p. 440 figs., Remy (1).

Pauropus sobrinus sp. nov. ♂ Ariége, France p. 397 fig.; *P. huxleyi* p. 400 fig., Remy & Balland (4); *P. wygodzinskyi* sp. nov. ♀ Rio Negro, Argentina p. 23 figs., Remy (2).

Rabaudauropus cuspidatus var. *pyrenaeus* var. nov. Ariége, France p. 405 fig.; *R. cuspidatus* p. 406 fig., Remy & Balland (4).

ONYCHOPHORA

No record.

ERRATA

Vol. 72 1935: 59 col. 1, 16 lines from bottom for *D. rosmari* read *D. rosmari* sp. nov.

Vol. 94 1957: 28, col. 1, line 8 insert No. 28 after Lumpur; for XVII read XVIII.

Vol. 94 1957: 34 col. 2, Morel, P. C. Bull. Soc. Path. exot. 50 for 1957 read (1957) 1958.

Vol. 94 1957: 49 col. 1, Toumanoff, C. & Maillard, D. Bull. Soc. Path. exot. for 56 1957 read 50 (1957) 1958.

Aponomma capponii sp. nov. and *Rhipicephalus boueti* sp. nov. for 1957 read (1957) 1958.

The following were published in key form in Krczal, H. Medd. Vaxtskydd-sanst. Stockh. 11 71–72 1958 : 64–66. q.v.—*Pygmephorus amplus* p. 66, *P. angustus* p. 65, *P. arboris* p. 66, *P. bavaricus* p. 66, *P. blumentritti* p. 66, *P. ceratophyi* p. 64, *P. chaetosus* p. 66, *P. comatus* p. 66, figs., *P. decumanus* p. 66, *P. ellipticus* p. 65, *P. erlangensis* p. 65, *P. ignotus* p. 64, *P. kochi*, p. 66, *P. matthesi*, p. 65, *P. microti*, p. 65, *P. pratensis* p. 65, *P. primitivus* p. 64 figs., *P. priscus* p. 64, *P. soricis* p. 64, *P. stammeri* p. 65, *P. ursulae* p. 64, *P. willmanni* p. 66.

